



alpha laboratories

supplying quality to science

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Introduction and Contents



Welcome to your new and expanded Alpha Laboratories Catalogue.

We hope you will find all the technical information you need, but please do contact your local distributor or Alpha if you need any further information.

For over 40 years Alpha Laboratories' range has continued to develop with the requirements of our customers. In this catalogue are many new products as well as old favourites.

alpha+™ manual pipettes are autoclavable, have a 3 year warranty, are calibrated according to ISO8655 and priced to suit every laboratory.

The Alpha tip range has many revisions. It now includes more tips manufactured from our popular co-polymer. This reduces liquid retention to only 0.5% without the use of reaction-toxic silicone.

SpeciSafe® sample transport mailing packs provide the required protection of biohazardous samples in the post, for compliance to UN3373 regulations.

The **Pastette**® and extended **Clarit-E**® ranges mean that you can select a product to suit your application rather than changing the way that you work.

Thank you for your continued custom and we look forward to being of assistance in the near future.

To receive the latest news straight to your inbox, sign up for regular e-news at www.alphalabs.co.uk/subscription.

Pastette® : 5 - 14

Pastette Selection, Specification & Packaging	6
Graduated Pastettes	8
Non-graduated Pastettes	9
Fine Tip Pastettes	10
Micro Pastettes	11
Dual Bulb (Exact Volume) Pastettes	12
Paddle Pastettes	12
Aspirator Pastettes	13
Custom Pastette Design	14

Liquid Handling : 15- 32

alpha+ Manual Pipettes	16-17
Drummond Pipet-Aid® Range	18-20
Serological Pipettes	21-22
Labmax Bottle Top Dispensers	23
Positive Displacement Microdispensers	24-27
Micro Capillaries	28
Nanoject Autoinjectors	30-32

Pipette Tips : 33 - 60

Pipette Tip Range, Packaging & Selection	32
Non-Filter Tips	34-39
Fastrak® Tip Refill System	38
ZAP™ Premier Filter Tips	40
Aerogard® Filter Tips	42
Cellsaver and Gel Tips	44
Gel Loading and Cutting Tips	45
Robotic Tips	46-49

Sample Handling : 61 - 86

Microtubes	62-66
5ml, 15ml and 50ml Centrifuge Tubes	67-70
ProtectR® CO ₂ Resistant Tubes	72
SampleTite™ Prime Containers	73
Cryogenic Vials	74
Round Bottom Tubes and Caps	76
Sample Containers	78
Universal Containers	79
Transport Tubes	79
Bijou Containers	80
Microslide Boxes	81
Culture Tools	81
Petri Dishes	82
Weighing Dishes	83

Sample Collection & UN3373 Packaging: 87-112

Understanding the Regulations	88-91
Sample Collection Solutions	92-94
Primary Sample Containers for Sample Transport	95
- for Air Transport	95-97
- for Road Transport	98-99
- Leak-Proof Tested	100-101
Secondary Packaging Solutions for Air or Road Transport	102
- for Air Transport	106
- for Road Transport	107
SpeciSafe® Mailing Packs	102-105
Outer Packaging Solutions for Air or Road Transport	108
Mailing Bags & Envelopes for Road Transport	109
Complete Kits for Sample Transport	110-112

Microplates and PCR Consumables : 113 - 134

PCR Tubes	114
PCR Plate Instrument Compatibility Chart	116
PCR Plates	118-120
96-Well Microtitre Plates	121
96-Well Deep Well Plates	121
Organised Microtubes	122
384-Well Microtitre and Deep Well Plates	123
Reagent Reservoirs	123
Adhesive Plate Sealing for Microplates	124-128
PCR Plate Sealing	129-134
Plate Sealing Accessories	134

Racks : 135 - 144

MultiRack™	136
80-position Rack	137
Combiracks	138
PCR Racking Systems	140
IsoFreeze® Racks	141
Freezer Racks	142
Cryogenic Storage	144

Electrophoresis : 145 - 168

Horizontal Gel Systems	146-153
DNA-View Electrophoresis System	154
Vertical Gel Systems	156-164
DNA Sequencing Unit	160
Modular Systems	161-162
Blotting Systems	163-165
Gel Drying	165
Power Supplies	166
Transilluminators	167
Gel Documentation	168
Gel Cutting Tips	168

General Laboratory Equipment : 169 - 174

Hotplates and Stirrers	170
Peristaltic Pump	170
Mini 3D Shaker	171
Waver Shaker	172
Vortex Mixer	173
PCR Workstation	174

Supporting Sustainability for All Our Futures

Alpha Laboratories is committed to innovative sustainability practices focused on building a better world for future generations.

We are changing the way we do business to preserve natural resources and the environment, by reducing waste and reusing or recycling materials, when possible.

Partnering with our customers is paramount to meeting our sustainability goals. We aim to help you by providing more eco-friendly products, manufactured with renewable energy.

Our ISO 14001 accreditation focuses our commitment to consistently conduct operations in a way that is protective of the environment and ensures compliance with all relevant local, national and international statutory, regulatory and legal requirements.

Together, we can make a difference.

To find out more, visit our Sustainability web page: www.alphalabs.co.uk/sustainability

Greener Working Environment:

In all aspects working environments staff are trained and equipped to follow green working practices and to always aim to Reduce, Reuse and Recycle.

Greener Packing and Distribution:

We use the most environmentally friendly packaging method available, choosing reuse and recycled materials as the primary option.

More Sustainable Products:

Fastrak® is probably the most eco-friendly tip rack refill system in the world. In all environmental aspects, Fastrak excels.

Greener Manufacturing:

We work closely with suppliers to source products that are manufactured in an eco-efficient manner.





Pastette®

The Global Name for Transfer Pipettes

Available in over 50 designs, Pastettes are flexible, unbreakable, transfer or Pasteur pipettes and are ideal for a multitude of tasks.

From quick and easy liquid transfers to precise control for small sample handling, Pastettes can be used for sampling from bottles or delivering to micro-cuvettes.

Whatever your application, a choice of known drop volumes and specific tip designs allow you to select the Pastette that exactly meets your needs. Availability in handy non-sterile bulk packs and sterile packs of 10, 20 or single wrapped pipettes offers complete flexibility.

Plus don't forget our custom design service if you ever need a bespoke format pipette.

Visit www.pasteur-pipette.com for further information



Contents

Page/s

Selecting the Right Type of Pastette	6
Pastette Specifications	7
Pastette Packaging Options	7
Graduated Pastettes	8
Non-graduated Pastettes	9
Fine Tip Pastettes	10
Micro Pastettes	11
Dual Bulb (Exact Volume) Pastettes	12
Paddle Pastettes	12
Aspirator Pastettes	13
Custom Pastette Design Options	14



Selecting the Right Pastette® for Your Needs

Pastettes are available in over 50 designs and can be used for many specialist as well as general purpose requirements.

They provide a safe and convenient alternative to glass pipettes, available in numerous shapes and sizes. Alpha Laboratories offers Pastettes in sterile, as well as simply packaged non-sterile pack formats.

Sterile inner packs of 20, 10 or single wrap Pastettes combine the security of aseptic transfers with the economy of use that suits your needs.

Pastettes are also available for custom requirements. Call Alpha Laboratories to discuss your specific design and packaging solutions.

For more information visit
www.pasteur-pipette.com

Graduated Pastettes

For measured transfers of 1, 2, 3 or 5ml in fractions of 0.25ml to 1.0ml.

Ideal for preparation of fixatives and stains and other measured transfers.



Jumbo Pastettes

For the transfer of larger volumes.

At 300mm long, the Jumbo reaches places other Pastettes can't go.



Fine Tip Pastettes

For careful control and small volume transfers. Ideal for supernatant removal, slide preparation and gel loading.



Non-Graduated Pastettes

Can be used for a wide variety of tasks. Specialist designs provide Pastettes for many applications from tissue culture to mononuclear separation and blood testing.





■ Length

Unless otherwise indicated Pastette illustrations are shown as 'life-size'. From the shortest (36mm) to the longest (300mm), you can select the length that allows you to reach into deep vessels or delicately draw fluid from small Wells.

■ Bulb Draw

Each Pastette in the range is shown with the maximum liquid volume that can be drawn in a single transfer allowing you to select the one most suitable to your typical volume transfers.

■ Tip Design

Alternative tip sizes allow you to choose smaller drop sizes in a variety of tip lengths, where work with small volumes and delicate applications is critical. Wide bore designs are ideal for viscous fluids or whole cells reducing shearing to a minimum.

■ Drop Volume

All Pastettes are accurate to $\pm 10\%$ of the stated specification allowing you to deliver μl drops of known volumes.

■ Graduations

Graduated Pastettes allow you to quickly and easily deliver measured volumes.

Just call for technical assistance to see which design best meets your needs:

+44 23 8048 7209 or email export@alphalabs.co.uk

Sterile



Sterility Assurance Level (SAL) of 10^{-4} is ensured by irradiating this product according to ANSI/AAMI/ISO 11137-2006 Guidelines. See pack logos for available sterile pack types.

Sterile "Singles"



Individual sterile Pastette® in a sealed plastic, or peel pouch.

Sterile "10s"



10 sterile Pastettes® in a sealed plastic bag, or peel pouch.

Sterile "20s"



20 sterile Pastettes® in a sealed plastic bag.

Liquid Handling - Pastette®

**Best
Choice
for:**

- Measured transfer
- Aliquoting
- Drop by drop work

Graduated Medi to fit blood bag tubing
Small Bulb Graduated for pH meter maintenance
Graduated Mini for slide tests and micro-volumes

	1ml Graduated	3ml Graduated	5ml Graduated	Graduated Medi	Small Bulb Graduated	Graduated Mini
Length (mm)	155	155	217	152	140	116
Drops per ml	25	20	19	24	25	21
Graduations at	0.25ml	0.50ml	1.00ml	0.50ml	0.25ml	0.1ml

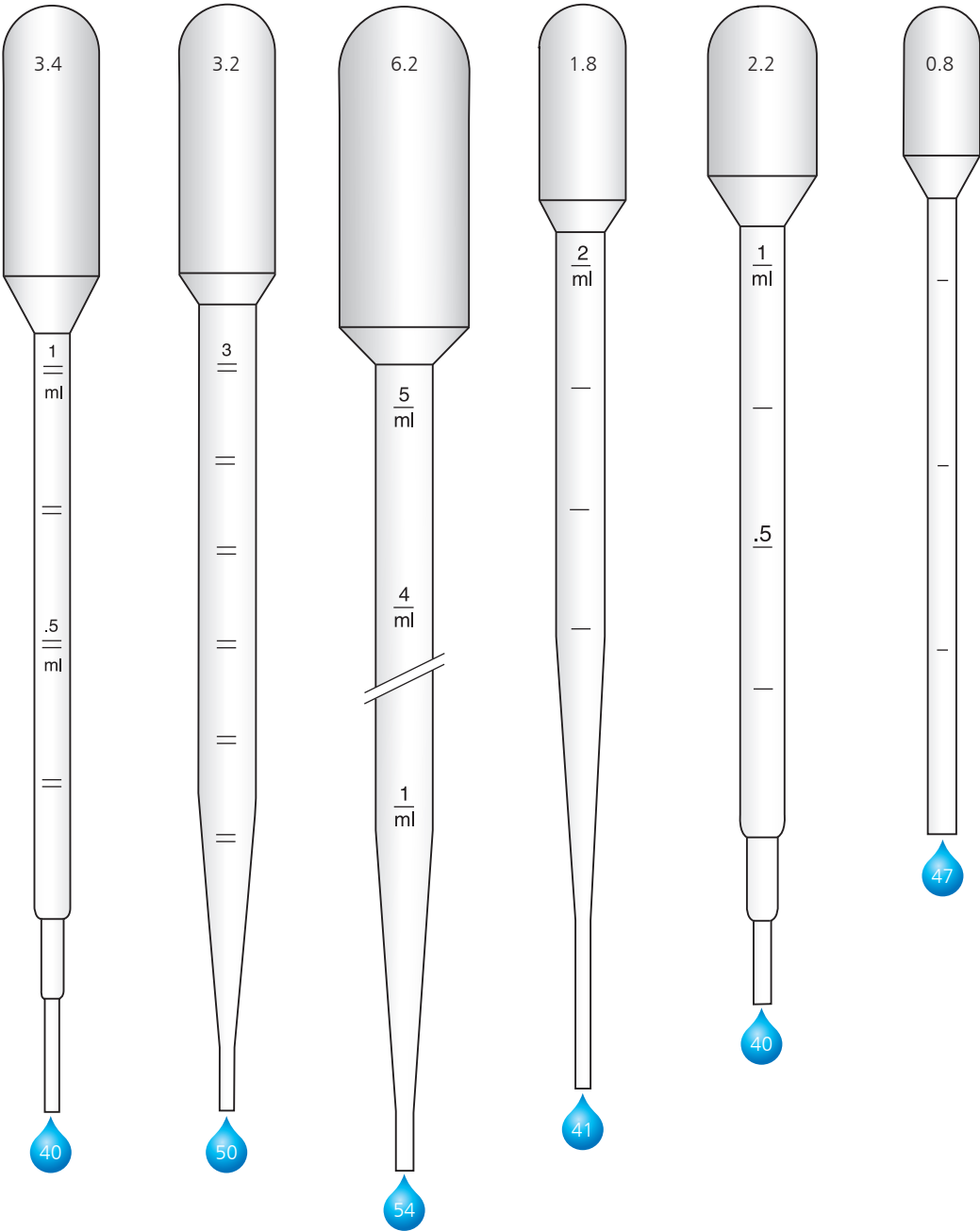
Bulb Draw (ml)

**Pastette®
Pluses**

Flexible Standing
Orders
Responsive Bulb
Sensitivity
Known Drop
Volumes

All drawings depict
actual size
except 5ml graduated

Drop Volume (µl)



Non Sterile							Non-sterile
Cat No	LW4040	LW4111	LW4728	LW4274	LW4212	LW4282	
Pack Size	500	500	250	500	500	500	
Sterile 1's							1's
Cat No	LW4005	LW4112				LW4284	
Pack Size	500	500				500	
Sterile 10's							10's
Cat No	LW4006	LW4113					
Pack Size / Price ex. VAT	500	500					
Sterile 20's							20's
Cat No	LW4010	LW4114	LW4729	LW4277	LW4215	LW4283	
Pack Size	500	500	240	500	500	500	



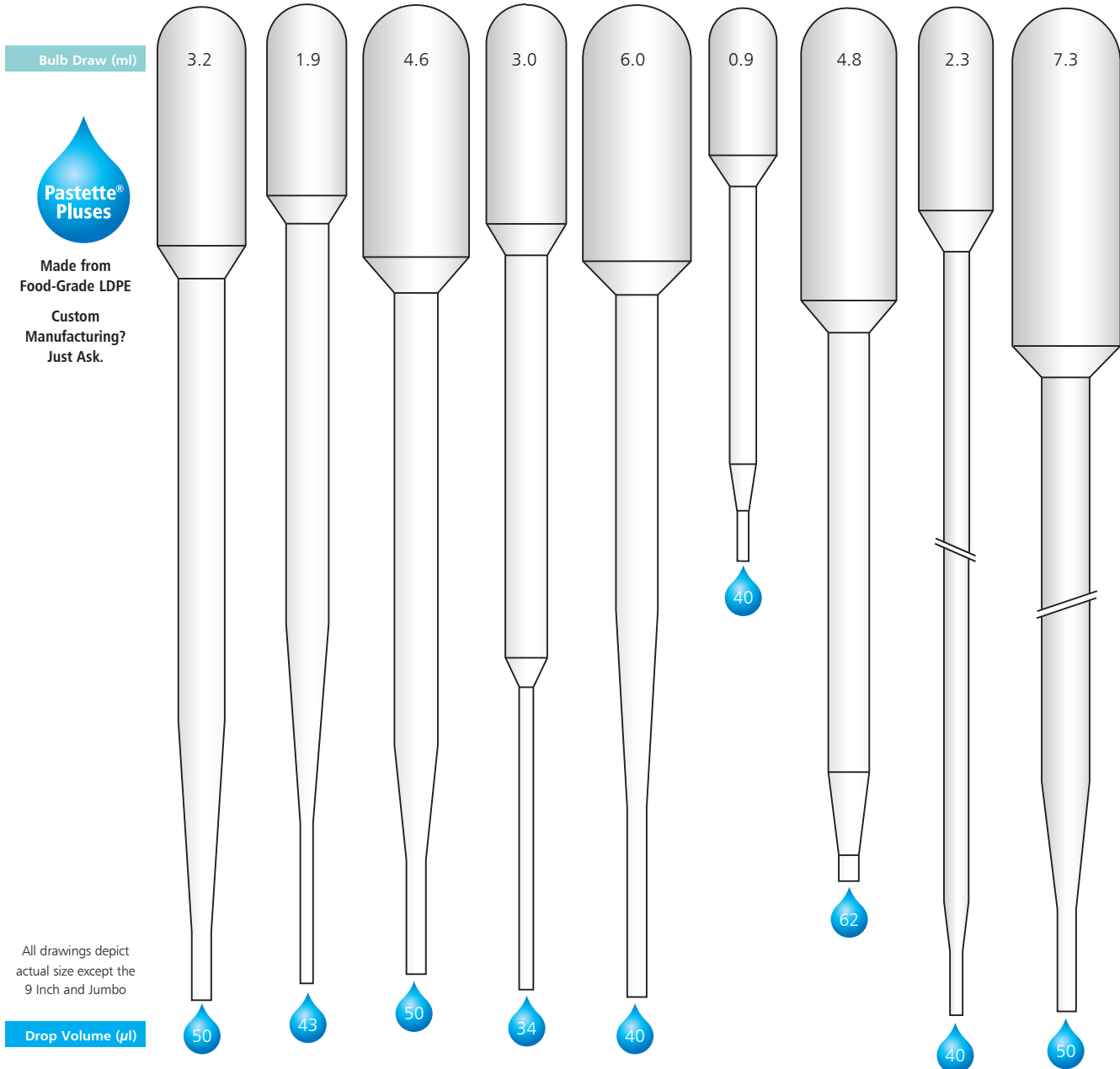
- Transferring supernatant
- Adding reagents/chemicals
- Extracting samples

Cell Saver for tissue culture

Maxi for larger volumes

Jumbo and 9 inch for deep vessels

	Standard	Medi	Maxi	Long Reach	Mayday	3 Inch	Cell Saver	9 Inch	Jumbo
Length (mm)	156	154	152	155	156	87	137	225	300
Drops per ml	20	23	20	29	25	25	16	25	20



Non Sterile										Non-sterile
Cat No	LW4000	LW4336	LW4204	LW4694	LW4141	LW4273	LW4691	LW4050	LW4263	
Pack Size	500	500	400	500	400	500	250	400	100	
Sterile 1's										1's
Cat No	LW4003						LW4692	LW4051	LW4264	
Pack Size	500						250	400	100	
Sterile 10's										10's
Cat No				LW4695						
Pack Size				500						
Sterile 20's										20's
Cat No	LW4002		LW4206					LW4053	LW4266	
Pack Size	500		400					400	100	



- Precise control
- Careful aspiration
- For test strips

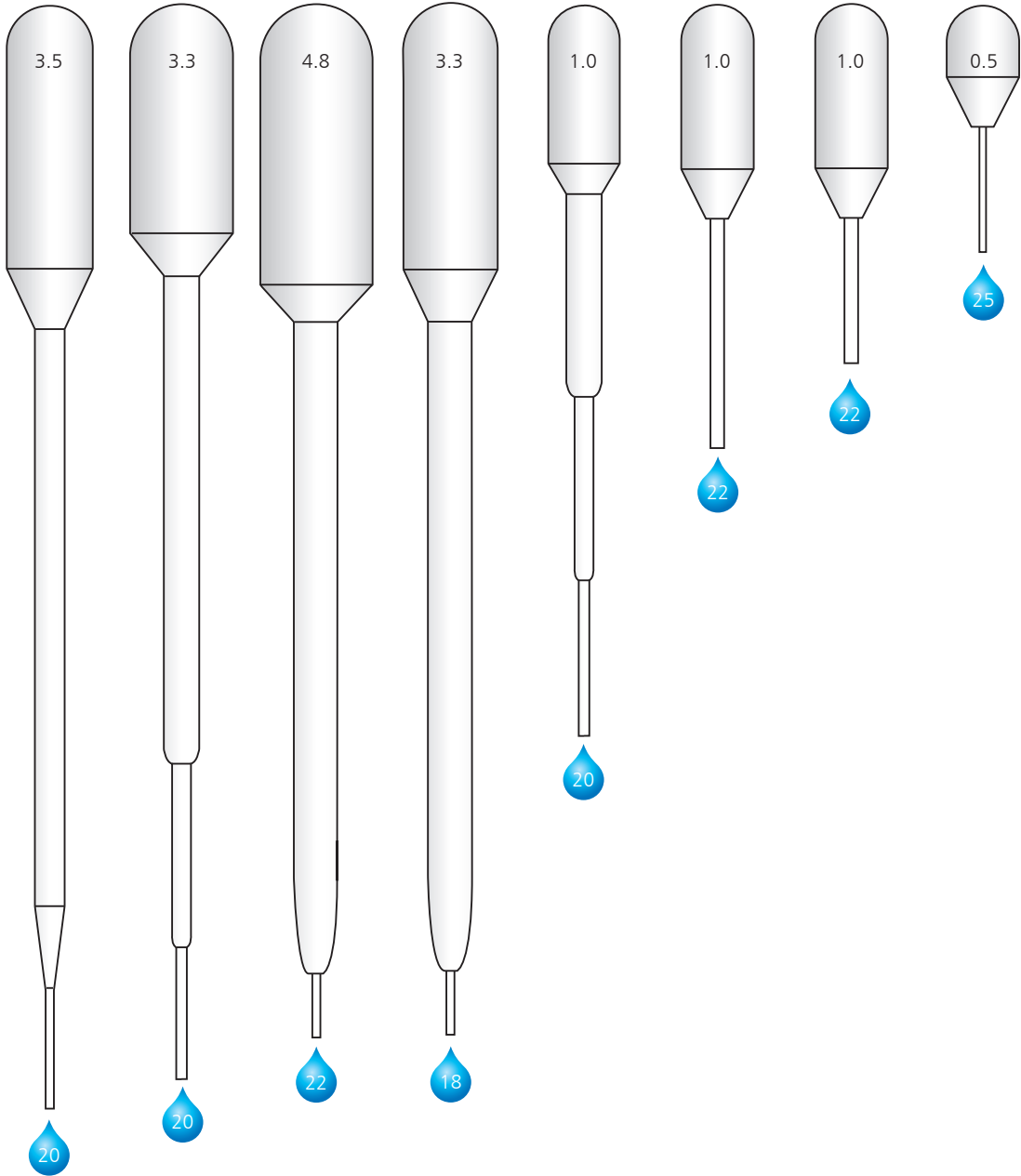
Fine Tip Mini for colony picking
Fine Tip Maxi for sample removal
Extended Fine Tip for small drop work

	Extended Fine Tip Standard	Extended Fine Tip	Fine Tip Maxi	Fine Tip	Extended Fine Tip Mini	Extended Fine Tip Ultra Micro	Fine Tip Ultra Micro	Small Bulb Fine Tip
Length (mm)	157	153	147	147	104	63	51	36
Drops per ml	50	50	45	55	50	45	45	40

Bulb Draw (ml)



Fine Tips for Great Control
No Sharps, No Hazards



All drawings depict actual size

Drop Volume (µl)

Non Sterile								
Cat No	LW4635	LW4233	LW4234	LW4060	LW4231	LW4244	LW4243	LW4697
Pack Size	500	250	400	500	400	500	500	500
Sterile 1's								
Cat No	LW4636	LW4238	LW4235	LW4061	LW4239			
Pack Size	400	400	400	400	400			
Sterile 20's								
Cat No	LW4638	LW4232	LW4236	LW4070	LW4237			
Pack Size	500	500	400	500	500			

Non-sterile

1's

20's

Pastette® Fine Tip



- Small diameter tubes
- Cuvettes and AA cups
- Can be heat sealed for transport

Ultra Micro for small volumes

Standard Micro for reaction chambers

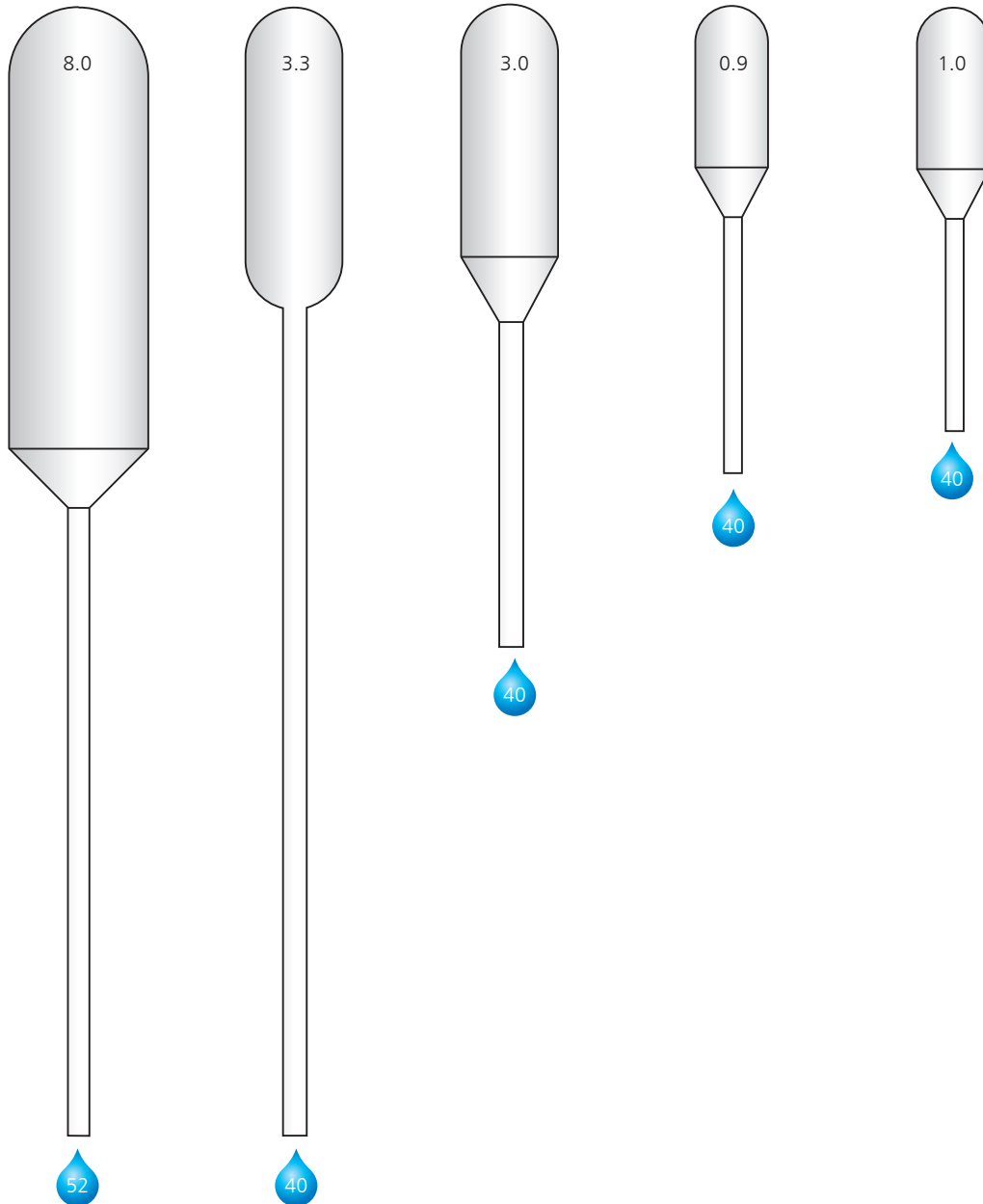
Large Bulb Micro for transfer of larger volumes

	Large Bulb Micro	Standard Micro	Short Stem Micro	Ultra Micro	Short Stem Ultra Micro
Length (mm)	155	155	88	64	58
Drops per ml	19	25	25	25	25

Bulb Draw (ml)



Robust Packaging
Lot Controlled
Quality Assured
Quick, Easy
and Economical



All drawings depict actual size

Drop Volume (µl)

Non Sterile						Non-sterile
Cat No	LW4252	LW4020	LW4242	LW4241	LW8241	
Pack Size	250	500	500	500	500	
Sterile 1's						1's
Cat No		LW4021				
Pack Size		500				
Sterile 20's						20's
Cat No	LW4255	LW4023				
Pack Size	200	500				

Dual-Bulb Pastettes®

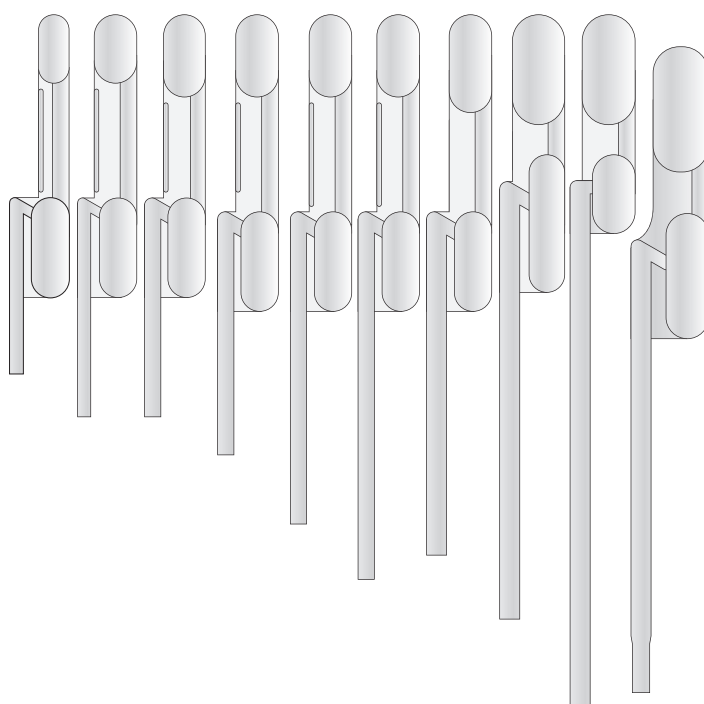
- Fast measured transfers
- Easy to use
- Innovative

Foolproof simplicity for exact volume delivery.

Dual-Bulb Pastettes are designed to dispense a known volume of liquid. Simply squeeze the upper bulb to fill, and squeeze again to dispense the exact volume.

A quick and easy alternative to pipettes and tips, Dual-Bulb Pastettes are available in a range of convenient volumes from 20-300µl.* Useful for many applications, and particularly for untrained hands as part of a self-test diagnostic kit.

Bulb Draw (µl)	60	110	-	146	146	146	180	-	324	385
Length (mm)	53	59	59	65	75	83	80	89	102	96
Dispense Volume (µl)	20	40	50	60	80	100	150	200	250	300



All drawings shown at 90% scale

Non Sterile										
Cat. No.	LW4730	LW4740	LW4745	LW4750	LW4760	LW4770	LW4780	LW4785	LW4790	LW4795
Pack Size	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Now also available in convenient smaller packs of 500 for certain volumes										
Cat. No.	LW4730-500	LW4740-500	LW4745-500	LW4750-500		LW4770-500	LW4780-500		LW4790-500	
Pack Size	500	500	500	500		500	500		500	

* If you require a volume which does not appear in our standard listing, we would be happy to discuss producing your required volume as a custom Pastette.

Paddle Pastettes®

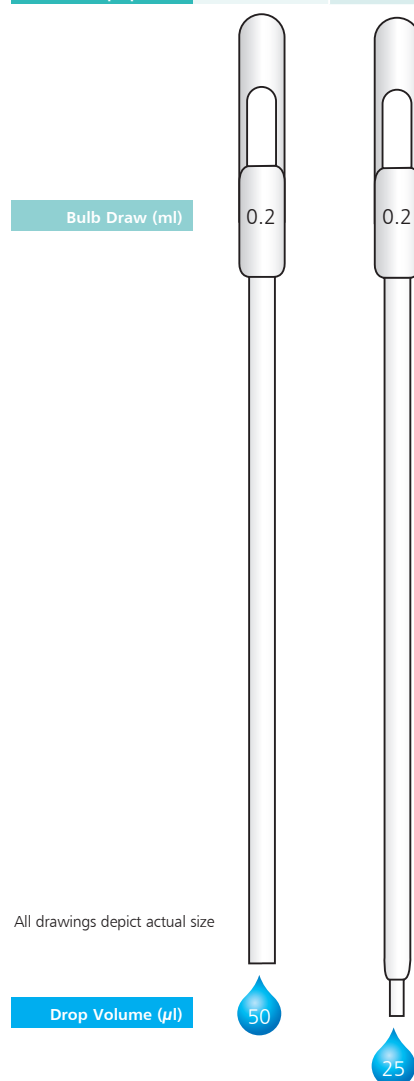
- Two functions, one Pastette®
- Choice of 2 drop sizes

Useful for dispensing and mixing applications and popular with diagnostic kit manufacturers.

Paddle Pastettes® allow you to dispense reagents onto slides followed by mixing using the opposite end of the Pastette®.

Ideal for latex agglutination, pregnancy tests and blood grouping cards.

	Paddle	Ultra Fine Tip Paddle
Length (mm)	124	131
Drops per ml	20	40



All drawings depict actual size

Non Sterile		
Cat. No.	LW4295	LW4292

Aspirator Pastettes®

	Short Aspirator	Long Aspirator
Length (mm)	152	280

- Manufactured from polyethylene
- Safer than glass
- Flexible and soft to protect cell cultures
- Can be used with any laboratory Pipet-Aid

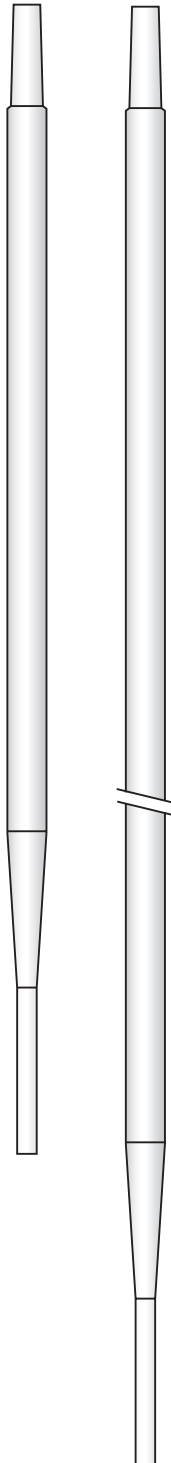
The unbreakable, safe alternative to aspirating with glass pipettes on vacuum lines.

Convenient, pre-sterilised and prevents injury risk from traditional glass pipettes.

Best choice for delicate and valuable cell lines.

A 'must have' for work with infectious and hazardous materials.

Convenient sterile inner packs of 25.



All drawings depict actual size except Long Aspirator

Sterile		
Cat No	LW4806	LW4811
Pack Size	500	500

Everything online at our dedicated Pastette® website



www.pasteur-pipette.com

- History
- Range
- Applications
- Custom Design
- Features and Quality
- Case Studies
- Contact

Custom Pastette® options

With more than 20 years' experience in bespoke pipette design, Alpha Laboratories is your best source for a customised specification.

Alpha's experience has also been employed by kit manufacturers and other users for the creation of additional personalised designs specific to their requirements.

Many of the current Pastette designs were the result of requests from users: adding graduations, lengthening/shortening stems or narrowing/widening the tip. However, despite this vast range, sometimes you still can't find the exact tool that would work perfectly for your particular application. If you need a bespoke product, a particular pipette to go into a kit or specific packaging, Alpha Laboratories can help.

Customisation Options

Option 1

White Box with Standard Product

- Standard plain white box with a white case label
- Supplied in generic packaging for customisation with your own label

Option 2

Customised Label with Standard Product

- Standard white box with customised label to fit your company's product
- Benefit from an economical customisation alternative

Option 3

Customised Product Colour and Packaging with White Box

- Compliment your business strategy by manufacturing your product with specific colour and/or bagged in specific quantities

Option 4

Customised Packaging and Product

- Get total customisation of your product design, label and package with your corporate logo and colours, bagged in required format

Ask the Experts

Alpha Laboratories is highly qualified to provide a range of customised solutions, tailored to your specific requirements. If you'd like to talk to us about a custom design, please contact us or complete the online enquiry form at: www.pasteur-pipette.com/custom

PLEASE NOTE MINIMUM ORDER QUANTITIES APPLY FOR ALL CUSTOM OPTIONS



Option 1



Option 2



Option 3



Option 4

Solutions for Routine and Specialist Liquid Handling

alpha+ pipettes, our extensive range of autoclavable pipettes, have a 3 year warranty and offer accurate liquid handling at a price to suit every laboratory

Some liquid handling tasks require specialist equipment. Our line of dispensers covers a wide range of applications - from Pipet-Aids and bottle top dispensers for large volume delivery to high precision instruments for nanolitre injections.

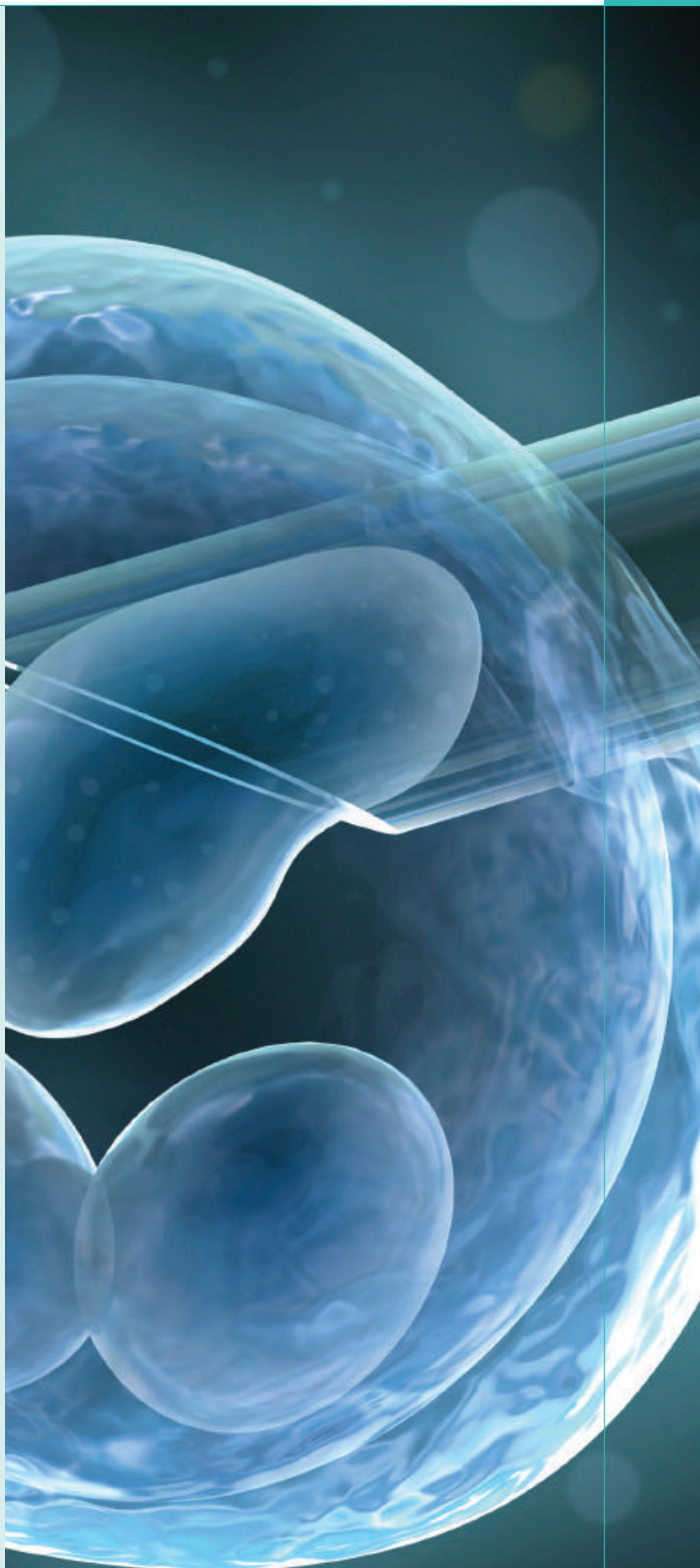
For difficult to handle solutions including viscous, volatile or high density liquids our positive displacement repeating dispensers ensure easy and precise delivery. They also make light work of all repeat volume delivery tasks, whatever your liquid.

For delicate work Drummond microdispensers ensure reproducible accuracy.

What's New?

- Nanoject III Autoinjector

Contents	Page/s
alpha+ Manual Pipettes	16-17
Drummond Pipet-Aid® Range	18-20
Serological Pipettes	21-22
Labmax Bottle Top Dispensers	23
Positive Displacement Microdispensers	24-27
Micro Capillaries	28
Nanoject Autoinjectors II & III	30-32



alpha+ Pipettes

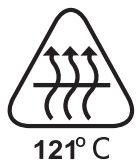
alpha+

Accuracy, Performance and Value

The range of **alpha+** pipettes provides variable and fixed volume single channel, plus 8 and 12-channel models.

These lightweight, easy-to-use pipettes are robust and reliable even in the most challenging environments. They provide unsurpassed accuracy at a very affordable price for true quality and economy within an attractive modern design.

Each pipette is supplied with a full calibration report according to ISO8655:2002 part 6. The pipettes are fully autoclavable without dismantling and carry a three year warranty.



Performance

- Calibration report according to ISO8655:2002 part 6 enclosed with every pipette
- Ensures high accuracy and precision
- Body grip made from TPE (Thermo Plastic Elastomer) insulates the pipette to minimise transfer of body heat to maintain high accuracy even in continuous use

Ergonomics

- Ergonomic design for minimum fatigue of hands and fingers
- Light weight
- Soft-grip body
- Soft plunger movement for reduced thumb stress
- Finger hook for support

Easy to Use

- Easy model volume identification through colour coding
- Click-stop digital system for volume setting

Robust and Reliable

- Autoclavable
- UV resistant
- 3 year warranty

Need Tips?

See the full range in our
Tips section pages 33-60

alpha+ Pipettes Ordering Information

Catalogue Number	Volume Range	Increments μl	Error of Trueness % at Nominal Volume	Imprecision % at Nominal Volume
Variable Volume Single Channel alpha+ Pipettes				
APV000025	0.1-2.5 μl	0.01	2.5	1.6
APV000100	0.5-10 μl	0.1	1	0.6
APV000200	2-20 μl	0.1	0.9	0.4
APV000500	5-50 μl	0.5	0.6	0.3
APV001000	10-100 μl	0.5	0.8	0.2
APV002000	20-200 μl	1	0.6	0.2
APV010000	100-1000 μl	5	0.6	0.2
APV050000	500-5000 μl	50	0.6	0.2
APV100000	1000-10000 μl	100	0.6	0.2
Fixed Volume Single Channel alpha+ Pipettes				
APF000025	2.5 μl	N/A	2.0	1.6
APF000050	5 μl	N/A	1.3	1.2
APF000100	10 μl	N/A	1.2	0.8
APF000200	20 μl	N/A	1.0	0.5
APF000250	25 μl	N/A	1.0	0.3
APF000400	40 μl	N/A	1.0	0.3
APF000500	50 μl	N/A	0.7	0.3
APF001000	100 μl	N/A	0.6	0.2
APF002000	200 μl	N/A	0.6	0.2
APF002500	250 μl	N/A	0.6	0.2
APF005000	500 μl	N/A	0.6	0.2
APF010000	1ml	N/A	0.6	0.2
APF020000	2ml	N/A	0.3	0.2
APF050000	5ml	N/A	0.3	0.2
APF100000	10ml	N/A	0.6	0.2

Other volumes may be available subject to minimum order requirements. Please enquire.

alpha+ Multichannel Pipettes

Designed with the same care and attention to detail as the single channel **alpha+** range, the multi-channel range comes with a choice of 8- or 12- tip 360° swivel head. This range is also autoclavable and carries a 3 year warranty.

Catalogue Number	Volume Range	Increments μl	Error of Trueness % at Nominal Volume	Imprecision % at Nominal Volume
8-Channel alpha+ Pipettes				
AP80010	0.5-10 μl	0.1	1.5	1.5
AP80050	5-50 μl	0.5	1.0	0.7
AP80100	10-100 μl	1.0	1.0	0.5
AP80200	20-200 μl	1.0	0.7	0.25
AP80300	30-300 μl	1.0	0.8	0.25
12-Channel alpha+ Pipettes				
AP120010	0.5-10 μl	0.1	1.5	1.5
AP120050	5-50 μl	0.5	1.0	0.7
AP120100	10-100 μl	1.0	1.0	0.5
AP120200	20-200 μl	1.0	0.7	0.25
AP120300	30-300 μl	1.0	0.8	0.25

For the latest tip fit information visit www.alphalabs.co.uk/alphaplustipfit



alpha+ Pipette Stands

Cat. No.	Description
APS-4	Stand to hold 4 x alpha+ Pipettes
APS-6	Stand to hold 6 x alpha+ Pipettes



Drummond Pipet-Aids

Drummond branded products have a hallmark of quality and reliability, trusted by customers around the world. The Drummond Pipet-Aid family has been setting the industry standard for electronic pipette controllers since the 1970's, when the launch of the original Pipet-Aid eliminated the need for mouth pipetting.

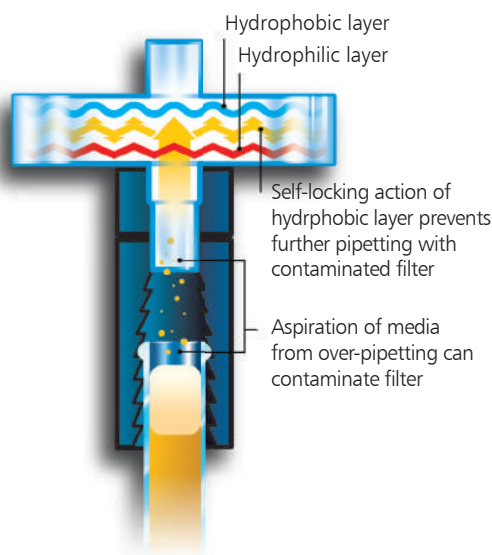
New designs have been developed to respond to the changing needs of the market and the latest models have a host of innovative features, providing great performance and ergonomics. With the widest choice of options available, you can select the Pipet-Aid to best suit your needs.

All Pipet-Aids have a one year warranty and can be used to fill glass or plastic serological pipettes from 1-100ml.

See pages 21-22 for our range of serological pipettes

Self-Locking Filter

Drummond Pipet-Aids incorporate a self-locking, dual layer filter comprising a hydrophobic 0.8µm membrane and a hydrophilic 0.8µm membrane which provide a barrier to particles as small as 0.1µm. These unique filters serve to both protect the Pipet-Aid® and guard against cross-contamination. When liquid is drawn into the filter by over aspiration, the hydrophobic layer prevents fluid from entering the handle whilst the wet hydrophilic layer restricts airflow, effectively 'locking' the pipette and preventing further use until the filter is replaced. Although with conventional, single layer, hydrophobic filters, the pipette controller is protected from over-pipetting (as aspirated liquid will not pass through the filter), subsequent use can blow out contaminants from the filter when dispensing.



(4-000-050)

The tissue culture nosepiece applies to Pipet-Aid® XL, XP and Original



Portable Pipet-Aid® XP²

The Pipet-Aid XP² raises the industry standards for pipetting comfort, convenience and control.

- Ergonomic design - the lightest Pipet-Aid ever with smooth-touch operating button
- Uninterrupted, extended operation - can be charged while in use to eliminate downtime
- Ultra quiet, precision pump - excellent control when aspirating or dispensing
- LED shows when mains power is connected

The unit has 3 speeds for aspiration and dispense modes and is powered by a 3.6V Ni-MH rechargeable battery. It is supplied with a charger, spare filters and a handy detachable stand for resting the Pipet-Aid when not in use.



Portable Pipet-Aid® XP ²		
Catalogue Number	Description	Pack Size
4-000-501-UK	Pipet-Aid® Portable XP ² , 220V UK Charger	Each
4-000-501-I	Pipet-Aid® Portable XP ² , 220V EURO Charger	Each

Accessories and Consumables for Pipet-Aid® XP²

Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-036	Pipet-Aid® XP ² / XL replacement battery	Each

Portable Pipet-Aid® XL

The Pipet-Aid XL has a special ergonomic design to make it easier to operate in awkward situations e.g. under the sash of a safety cabinet or fume hood.

- Longer, lightweight handle allows users to adopt a lower arm position when pipetting. This minimises head, neck and upper arm fatigue helping to avoid repetitive strain injuries
- Adjustable sliding hand rest gives maximum comfort and stability
- Quiet and efficient pump
- Uninterrupted, extended operation - can be charged while in use to eliminate downtime

The unit has 3 speeds for aspiration and dispense modes and is powered by a 3.6V rechargeable battery. It can be used to fill glass and plastic pipettes from 1-100ml. It is supplied with a UK charger, spare filters, holster wall bracket and a handy detachable stand for resting the Pipet-Aid when not in use.



Portable Pipet-Aid® XL

Catalogue Number	Description	Pack Size
4-000-205-E	Pipet-Aid® XL with UK Charger	Each
4-000-205	Pipet-Aid® XL - Euro Charger 220V	Each

Accessories and Consumables for Pipet-Aid® XL

Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-036	Pipet-Aid® XP ² / XL replacement battery	Each



Portable Pipet-Aid® XP

This tried and trusted model has high durability so it is the perfect workhorse for high throughput areas.

- Compact and lightweight
- Handy holster for wall-mounting
- Optional coloured nosepieces for easy identification

The unit has 3 speeds for aspiration and dispense and is powered by a 9V Ni-MH rechargeable battery. It can be used to fill glass and plastic pipettes from 1-100ml. It is supplied with a charger, spare filters, holster wall bracket and a detachable stand for resting the Pipet-Aid when not in use.



Accessories and Consumables for Pipet-Aid® XP

Catalogue Number	Description	Pack Size
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-035	Pipet-Aid XP Replacement Battery	Each

Portable Pipet-Aid® XP

Catalogue Number	Description	Pack Size
4-131-201-E	Pipet-Aid® XP with 220V UK Charger	Each
4-000-202-E	Pipet-Aid® XP with gravity drain 220V UK Charger	Each
4-000-201	Pipet-Aid® XP with 220V EURO Charger	Each

Original Pipet-Aid®

This is the first and original Pipet-Aid model and is fully mains operated (without battery). Unlike portable models, a separate hand piece with no electrical components allows for effective autoclaving, eliminating bacterial and viral contamination.

- Extra level of decontamination when handling biohazardous samples
- Available in 3 versions:
 1. with plain nosepiece
 2. with filtered (tissue culture) nosepiece
 3. with dual pump filtration (biohazardous filters present on vacuum and pressure lines)
- The unit has a variable speed for aspiration and dispensing
- Cordless portable version also available

Original Pipet-Aid® and Accessories

Catalogue Number	Description	Pack Size
4-131-220-E	Original Pipet-Aid Plain with UK charger	Each
4-000-220	Original Pipet-Aid Plain with Euro charger	Each
4-131-220-TC-E	Original Pipet-Aid with TC Nosepiece	Each
4-000-221-E	Original Pipet-Aid with Dual Pump Filtration	Each
4-131-200-E	Original Pipet-Aid Portable with UK charger	Each
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50



Pipet-Aid® Hood Mate

For those who prefer a hard-wired installation, particularly in a workstation, the Pipet-Aid Hoodmate is the perfect solution. The Pipet-Aid is linked to a wall-mounted pump and housing via a long, coiled cord and when not in use, it sits in a convenient holster on the front of the unit.

Always at hand – won't walk away

- Never needs recharging
- Auto-off feature activates after 3 minutes of no use
- 9 aspirate & dispense speed settings
- Space-saving
- Made from UV-resistant materials

Pipet-Aid® Hood Mate

Catalogue Number	Description	Pack Size
4-000-303	Pipet-Aid Hoodmate 220V with UK Charger	Each
4-000-302	Pipet-Aid Hoodmate 220V with EURO Charger	Each
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50
4-000-079	EZ Grip Black Nosepiece	Each
4-000-079-Z	EZ Grip Coloured Nosepieces Assorted	6
4-000-081-E	UK Power Supply for Pipet-Aid Hoodmate	Each



Serological Pipettes

Sterilin Plugged Pipettes, Sterile, Individually Wrapped in Paper Peel Packaging

- Printed with product code/lot number and expiry date
- Paper backing allows for easier access
- Paper backing maintains shape for easy disposal of pipette within wrapper following use
- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of $\pm 1\%$ for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour-coded for ease of identification



Sterilin Pipettes, Sterile, Individually Wrapped in Paper Peel Packaging

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1640	1ml sterile pipette individually wrapped	-0.2	279	IRR	10 x 100
RC1650	2ml sterile pipette individually wrapped	-0.3	279	IRR	10 x 100
RC1030	5ml sterile pipette individually wrapped	-2.0	275	IRR	4 x 50
RC1040	10ml sterile pipette individually wrapped	-3.0	333	IRR	10 x 50
RC1050	25ml sterile pipette individually wrapped	-10.0	349	IRR	8 x 25
RC1060	50ml sterile pipette individually wrapped	-5.0	344	IRR	2 x 25

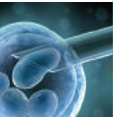
Sterilin Plugged Pipettes, Bulk Packed

- Bulk packed in convenient shelf packs
- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of $\pm 1\%$ for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour coded for ease of identification



Sterilin Pipettes, Sterile, Bulk Packed

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1021	1ml sterile pipettes bulk packed	-0.2	279	IRR	20 x 50
RC1022	2ml sterile pipettes bulk packed	-0.3	279	IRR	20 x 50
RC1025	10ml sterile pipettes bulk packed	-3.0	333	IRR	20 x 25
RC1023	5ml sterile pipettes without suction adapter	-1.5	275	IRR	8 x 25



Sterilin Plugged Pipettes, Individually Wrapped in Plastic Film Packaging

- Gamma irradiated to ensure sterility
- Certified non-pyrogenic with an endotoxin level of below 0.25EU/ml
- Batch specific certificate supplied in each carton
- Lot number for complete traceability
- Accuracy of $\pm 1\%$ for nominal volume
- Clear black printed graduations for maximum clarity
- Descending and ascending graduations to aid pipetting
- Negative graduations for extra capacity
- Colour-coded for ease of identification



Sterilin Pipettes, Sterile, Individually Wrapped in Plastic Film Packaging

Catalogue Number	Description	Negative Graduations (ml)	Overall Length (mm)	Sterility	Pack Size
RC1061	1ml sterile pipette individually wrapped	-0.2	279	IRR	10 x 100
RC1062	2ml sterile pipette individually wrapped	-0.3	279	IRR	10 x 100
RC1064	5ml sterile pipette individually wrapped	-2.0	298	IRR	4 x 50
RC1065	10ml sterile pipette individually wrapped	-3.0	333	IRR	10 x 50
RC1066	25ml sterile pipette individually wrapped	-10.0	349	IRR	8 x 25
RC1067	50ml sterile pipette individually wrapped	-5.0	344	IRR	2 x 25
RC1068	5ml sterile pipette without suction adapter	-1.5	275	IRR	4 x 50



Alpha Labmax Universal Bottle-Top Dispensers



Normal dispensing mode



Safety lock feature – cannula turns 180°

for fast and convenient dispensing



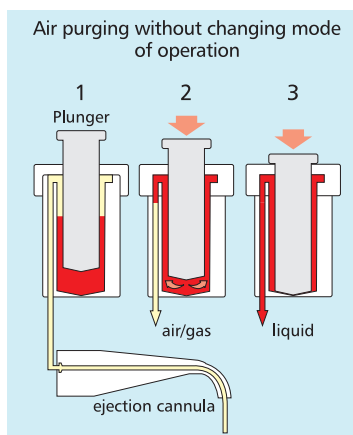
Alpha **Labmax Universal** is a new generation of bottle top dispensers offering fast and trouble-free reagent handling. Constructed from tough, chemical-resistant materials, they can be used with most laboratory chemicals* and are fully autoclavable so you can standardise on one range for all your dispensing needs.

The innovative design incorporates an automatic air-purging system to ensure accurate liquid delivery with minimal wastage. Unlike conventional devices, Labmax Universal does not feed the reagent back into the bottle during air-purging, so no gas bubbles are transferred into the liquid. Instead, the novel flow path ensures that the plunger's downward movement always displaces the air first and passes it out through the dispensing nozzle before delivering the liquid.

Another valuable feature is the anti-drip dispensing nozzle (ejection cannula) which prevents unnecessary loss of media and serves as a safety lock. When not in use, the cannula can be turned through 180 degrees to drain residual liquid into the bottle.

All Labmax Universal models are supplied with a range of adapters to fit most screw cap bottles.

* Not suitable for use with solutions containing hydrofluoric acid, solids, or substances catalysed by platinum or iridium alloys



Part	Material
Ejection Cannula	FEP
Seal	PTFE
Valve Head	ETFE
Cylinder	PTFE
Plunger	Borosilicate Glass
Valve Spring	Platinum-Iridium
Valve Ball	Aluminium Oxide
Valve Seal	Borosilicate Glass

Catalogue Number	Description	Increment ml	Accuracy ml	Pack Size
LW0801	0.25-2.5ml LabMax Universal Bottle-top Dispenser	0.05ml	±0.012ml	Each
LW0802	0.5-5ml LabMax Universal Bottle-top Dispenser	0.1ml	±0.030ml	Each
LW0803	1-10ml LabMax Universal Bottle-top Dispenser	0.2ml	±0.060ml	Each
LW0804	2.5-25ml LabMax Universal Bottle-top Dispenser	0.5ml	±0.150ml	Each
LW0805	5-50ml LabMax Universal Bottle-top Dispenser	1.0ml	±0.300ml	Each
LW0806	10-100ml LabMax Universal Bottle-top Dispenser	2.0ml	±0.600ml	Each

Positive Displacement Microdispensers



Adjustable Digital Microdispensers

The Drummond range of Digital Microdispensers provides accurate, adjustable volume dispensing.

The direct digital set and read out for fractional volume makes these precision-engineered dispensers easy to use. Using stainless steel plungers (with teflon tips on models 25 μ l and upwards) and borosilicate, colour-coded glass capillaries (polypropylene bores for 1000 μ l model) at nominal volumes, the Digital Microdispensers deliver an accuracy of $\pm 1\%$.

A positive lock prevents accidental volume changes. Microdispensers are supplied with the appropriate size capillaries, spare O-ring and teflon tips.

The 1000 μ l model can also be teamed with a Repeat Kit for continuous pipetting, or dispensing manifolds for use with 96 and 384 Well plates.



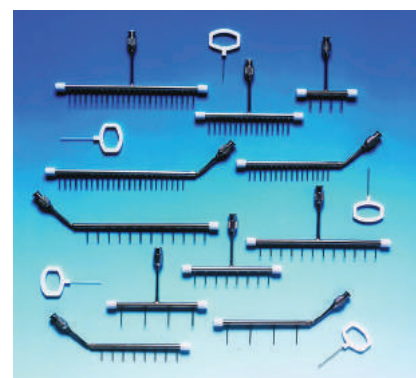
For replacement glass capillary tubes and plastic tips please see the following page.

For replacement parts please see page 26.

Adjustable Digital Microdispensers

Catalogue Number	Description	Range μ l	Increments μ l
3-000-510	10 μ l Drummond digital Microdispenser	2.0-10.0	0.01
3-000-525	25 μ l Drummond digital Microdispenser	5.0-25.0	0.1
3-000-550	50 μ l Drummond digital Microdispenser	10-50	0.1
3-000-575	100 μ l Drummond digital Microdispenser	20-100	0.1
3-000-590	1000 μ l Drummond digital Microdispenser	100-1000	1.0
3-000-091	Repeat Kit for use with 1000 μ l models		
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*		
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*		
3-000-101	Straight, 24 Place Manifold for 384-Well Plate*		

*Other configurations available, please enquire



Adjustable Dialamatic Microdispensers



Dialamatic Microdispensers offer excellent precision micro-volume delivery. The stainless steel plungers and borosilicate glass capillaries have a volumetric accuracy of $\pm 1\%$ at full volume. The adjustable plunger is engraved with a fractional delivery scale in pre-marked increments for direct reading and setting. All microdispensers are supplied with colour-coded capillaries, essential maintenance tools and spare parts.



Adjustable Dialamatic Microdispensers

Catalogue Number	Description	Range μ l	Increments μ l
3-000-210	10 μ l Drummond Dialamatic Microdispenser	2.0-10.0	1.0
3-000-225	25 μ l Drummond Dialamatic Microdispenser	5.0-25.0	1.0
3-000-250	50 μ l Drummond Dialamatic Microdispenser	10-50	2.0
3-000-275	100 μ l Drummond Dialamatic Microdispenser	20-100	10.0



For replacement glass capillary tubes and plastic tips please see the following page. For replacement parts please see page 26.

Positive Displacement Microdispensers



Fixed Volume Microdispensers

The range of fixed volume microdispensers provides reliable, accurate delivery of single volumes using stainless steel plungers and borosilicate glass capillaries, or polypropylene bores for the 1000 μ l model. Volumetric accuracy of these pipettes at full volume is $\pm 1\%$. A pack of colour-coded capillaries or plastic tips of the appropriate volume together with essential maintenance tools accompany each dispenser.

The 5 μ l model can be adapted to dispense 1, 2, 3 or 4 μ l using the set of 4 colour-coded spacers provided with the pipette. The required spacer is fitted over the plunger by removing the fingerpad. Similarly the 200 μ l model can be adapted to dispense 100 μ l.

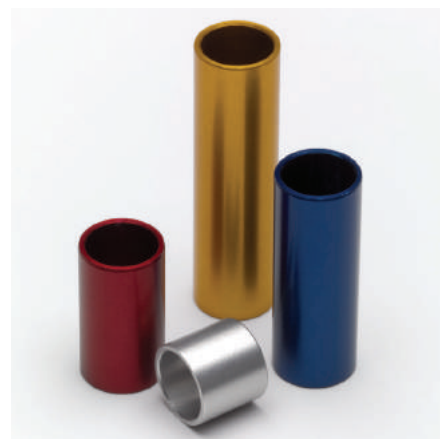


The 1000 μ l model can also be teamed with a Repeat Kit for continuous pipetting or dispensing manifolds for use with 96 and 384 Well plates.

Fixed Volume Microdispensers

Catalogue Number	Description	Pack Size
3-000-105	1/2/3/4/5 μ l Drummond Fixed Volume Microdispenser	Each
3-000-310	10 μ l Drummond Fixed Volume Microdispenser	Each
3-000-320	20 μ l Drummond Fixed Volume Microdispenser	Each
3-000-325	25 μ l Drummond Fixed Volume Microdispenser	Each
3-000-350	50 μ l Drummond Fixed Volume Microdispenser	Each
3-000-375	100 μ l Drummond Fixed Volume Microdispenser	Each
3-000-385	100/200 μ l Drummond Fixed Volume Microdispenser	Each
3-000-388	250 μ l Drummond Fixed Volume Microdispenser	Each
3-000-390	1000 μ l Drummond Fixed Volume Microdispenser	Each
3-000-091	Repeat Kit for use with 1000 μ l models	Each
3-000-093	Straight, 8 Place Manifold for 96-Well Plate*	Each
3-000-102	Straight, 16 Place Manifold for 384-Well Plate*	Each
3-000-101	Straight, 24 Place Manifold for 384-Well Plate*	Each

*Other configurations available, please enquire



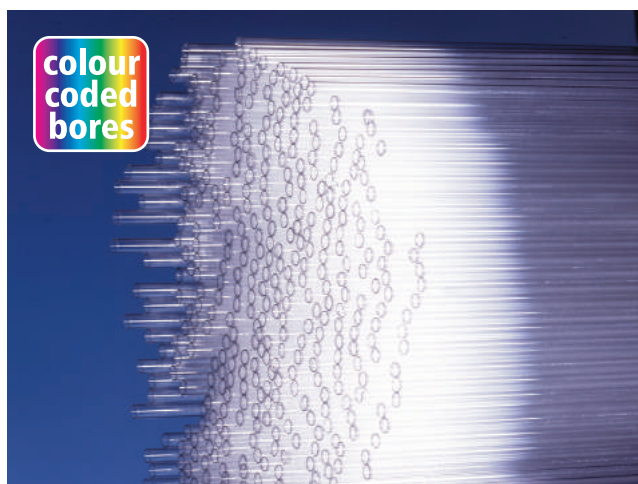
Spacer set included with 3-000-105



3-000-105 set to dispense 1 μ l with largest spacer

For further details of the Repeat Kit and Dispensing Manifolds, please see the previous page.

Microdispenser Capillaries/Bores

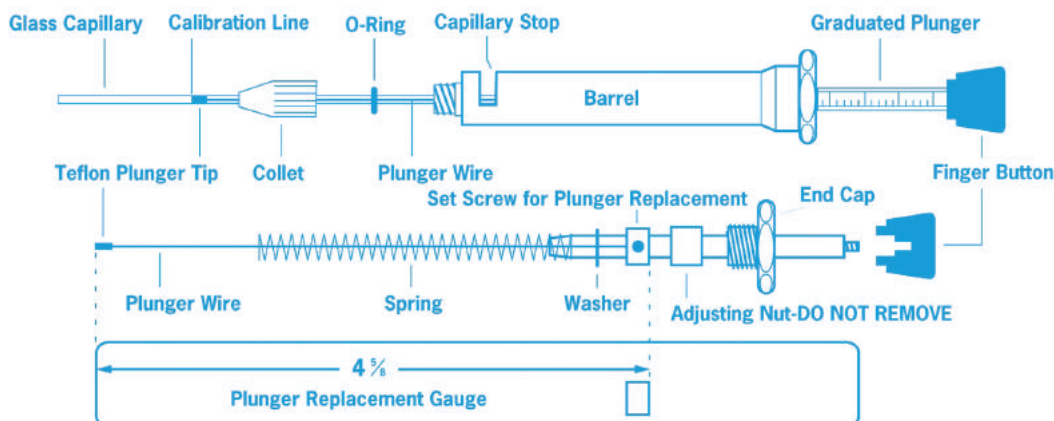


Drummond Microdispenser capillaries are suitable for use with all Microdispensers. They are manufactured from chemical resistant, borosilicate glass with the exception of the 1000 μ l bores which are manufactured from tough polypropylene. All microdispenser capillaries are colour coded to help you easily identify the correct volume bore.

Microdispenser Capillaries

Catalogue Number	Description	Pack Size
3-000-105-G	1-5 μ l Glass Microdispenser Bores, White	100
3-000-210-G	10 μ l Glass Microdispenser Bores, Orange	100
3-000-320-G	20 μ l Glass Microdispenser Bores, Black	100
3-000-225-G	25 μ l Glass Microdispenser Bores, Double White	100
3-000-250-G	50 μ l Glass Microdispenser Bores, Green	100
3-000-275-G	100/200 μ l Glass Microdispenser Bores, Blue	100
3-000-388-G	250 μ l Glass Microdispenser Bores, Black	100
3-000-590-G	1000 μ l Plastic Tips	100

Replacement Parts for Microdispensers



Positive displacement microdispensers are easily serviced with no need for re-calibration and are provided with a supply of capillaries, an Allen key, O-ring, replacement Teflon tips, holding block and reshaping tool where appropriate.

Additional components to keep your microdispensers in excellent working order are available in tailored parts, kits or bulk packs.

Microdispensers with a maximum volume of up to 20µl do not require teflon plunger tips and the 1000µl Microdispensers do not utilise O-rings or plunger wires.

Tailored Parts Kits

Catalogue Number	Description	Compatibility
3-000-005-K	5µl Microdispenser Parts Kit: 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-105
3-000-010-K	2-10µl Microdispenser Parts Kit: 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-510 3-000-210
3-000-310-K	10µl Microdispenser Parts Kit: 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-310
3-000-320-K	20µl Microdispenser Parts Kit: 2 Plungers, 2 O-Rings, 1 Coil Spring, 1 Spring Guide	3-000-320
3-000-025-K	5-25µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-525 3-000-225
3-000-325-K	25µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-325
3-000-050-K	10-50µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-550 3-000-250
3-000-350-K	50µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-350
3-000-075-K	20-100µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-575
3-000-375-K	100µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-275 3-000-375
3-000-385-K	100/200µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-385
3-000-388-K	250µl Microdispenser Parts Kit: 1 Plungers, 2 O-Rings, 1 Collet, 1 Coil Spring, 3 Teflon Tips, 1 Spring Guide	3-000-388*

Bulk Parts Kits – Ordered on Request

Catalogue Number	Description	Quantity	Compatibility
3-000-010-590	Plunger Tips for 1000µl Microdispenser	3	3-000-590, 3-000-390
3-000-0101	Teflon Tips 25µl x 50	50	3-000-525, 3-000-225, 3-000-325
3-000-0102	Teflon Tips 50µl	50	3-000-550, 3-000-250, 3-000-350, 3-000-344*
3-000-0103	Teflon Tips 100µl	50	3-000-575, 3-000-275, 3-000-375, 3-000-385

*Other configurations available, please enquire



Gel Sequencing Pipette



The Drummond Gel Sequencing Pipette is a variable volume Microdispenser developed to address the difficult procedure of introducing DNA samples into gel slots. It allows 0.5-3.0µl sample volumes to be efficiently and precisely delivered into narrow slots, utilising tapered polycarbonate tips.

The tips are available in 3 bore diameters: 0.34mm for 0.35mm gel slots, 0.16mm for 0.2mm gel slots and 0.19mm for 0.2mm gel slots. They can be autoclaved for sterile applications and are also replaceable. The pipette is supplied with 6 x 0.34mm tips and are available to order separately.



Gel Sequencing Pipette

Catalogue Number	Description	Pack Size
3-000-203	Microdispenser Gel Sequencing Pipette	Each
3-000-203-G	Replacement Bores 0.34 mm	10
3-000-203-G-0.16	Replacement Bores 0.16mm	10
3-000-203-G-0.2	Replacement Bores 0.19mm	10

Oocyte Microinjection Pipette



The Drummond Oocyte Microinjection Pipette offers reproducible accuracy when dispensing volumes from 30nl to 10µl. The non-rotating plunger eliminates tip wobble to allow more precise deposition.

Each pipette is supplied with 100 8" glass capillaries for the user to prepare 200 pulled tips.



Oocyte Microinjection Pipette

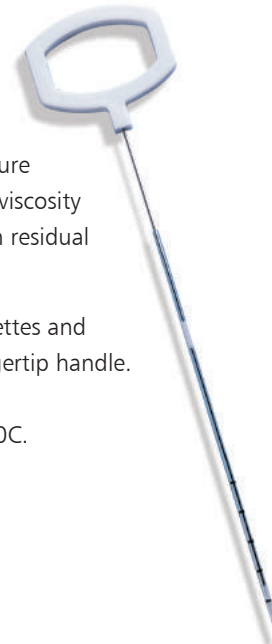
Catalogue Number	Description	Pack Size
3-000-510-X	Oocyte Pipette with 100 x 8" Glass Capillaries	Each
3-000-210-G8	10µl Oocyte Pipette Capillaries, 8"	100
3-000-210-G	10µl Microdispenser Capillaries, 3.5"	100
3-000-000-210-X	Wire Plunger for Oocyte Pipette	Each

PCR Pipettes



These disposable, positive displacement, glass micropipettes with stainless steel plungers measure true sample volume regardless of viscosity and eliminate contamination from residual aerosols.

Each pack contains 100 micropipettes and 100 plungers plus a re-usable fingertip handle. The glass micropipettes should be decontaminated before use at 240C.



PCR Pipettes

Catalogue Number	Description	Pack Size
5-000-1001-X	5µl PCR Pipettes	100
5-000-1001-X10	10µl PCR Pipettes	100

Wiretrol® II



Wiretrol® II positive displacement micropipettes combine a disposable, precision bore, calibrated micropipette with a re-useable, stainless steel plunger and fingertip handle. The calibrated micropipettes are colour-coded and have dual graduations. They are supplied with two plungers, one standard length for complete filling of the bore and a second shorter plunger for non-contact delivery of the sample to prevent contamination. Wiretrol® II are suitable for use with both high and low viscosity liquids.



Wiretrol® II

Catalogue Number	Description	Colour Code	Pack Size
5-000-2005	Wiretrol II Micropipettes 1 to 5µl	White	250
5-000-2010	Wiretrol II Micropipettes 5 to 10µl	White	250
5-000-2020	Wiretrol II Micropipettes 10 to 20µl	Orange	250
5-000-2050	Wiretrol II Micropipettes 25 to 50µl	Double White	250
5-000-2100	Wiretrol II Micropipettes 50 to 100µl	Green	250
5-000-2200	Wiretrol II Micropipettes 100 to 200µl	Blue	250

Micro Capillaries

Microcaps®

These disposable, precision-bore, glass capillary tubes are cut to pre-determined lengths to deliver constant and precise, $\pm 1\%$ fill volumes. Easy to use, the fluid is drawn into the tube by capillary action and dispensed by a simple squeeze of the bulb.

Each pack of Microcaps® is supplied with one re-useable bulb. Additional bulbs can be purchased separately.

A unique spotting holder is also available for applications such as TLC, which will allow the sample to be dispensed simply by touching the tube to the spotting surface such as silica gel or cellulose.



Microcaps®			
Catalogue Number	Description	Pack Size	
1-000-00025	0.25µl Microcap, 32mm	100	
1-000-0005	0.50µl Microcap, 32mm	100	
1-000-0010	1.00µl Microcap, 32mm	100	
1-000-0010-64	1.00µl Microcap, 64mm	100	
1-000-0020	2.00µl Microcap, 32mm	100	
1-000-0030	3.00µl Microcap, 32mm	100	
1-000-0040	4.00µl Microcap, 32mm	100	
1-000-0050	5.00µl Microcap, 32mm	100	
1-000-0060	6.00µl Microcap, 38mm	100	
1-000-0070	7.00µl Microcap, 45mm	100	
1-000-0080	8.00µl Microcap, 44mm	100	
1-000-0090	9.00µl Microcap, 49mm	100	
1-000-0100	10.00µl Microcap, 41mm	100	
1-000-0150	15.00µl Microcap, 54mm	100	
1-000-0200-32	20.00µl Microcap, 32mm	100	
1-000-0200	20.00µl Microcap, 64mm	100	
1-000-0250	25.00µl Microcap, 65mm	100	
1-000-0300	30.00µl Microcap, 78mm	100	
1-000-0350	35.00µl Microcap, 78mm	100	
1-000-0400	40.00µl Microcap, 52mm	100	
1-000-0447	44.70µl Microcap, 52mm	100	
1-000-0500	50.00µl Microcap, 100mm	100	
1-000-0750	75.00µl Microcap, 101mm	100	
1-000-0800	80.00µl Microcap, 93mm	100	
1-000-1000-100	100.00µl Microcap, 100mm	100	
1-000-1000	100.00µl Microcap, 116mm	100	
1-000-2000	200.00µl Microcap, 127mm	100	



1-000-9000

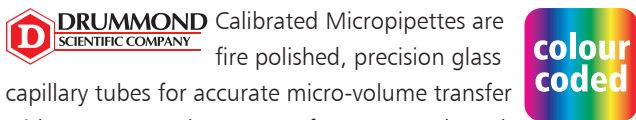


1-000-9005

Microcaps® Accessories

Catalogue Number	Description	Pack Size
1-000-9000	Microcap Bulb Dispenser	Each
1-000-9003	Silicone Tips for Bulb Dispenser assembly	3
1-000-9005	TLC Spotting Holder	Each

Calibrated Micropipettes



Drummond® tubes can be purchased separately. For ease of use, Calibrated tubes can be used with the Captrol III® dispenser which performs simple and dispensing operations μ l with a rotating control.

Catalogue Number	Description	Colour Code	Pack Size
2-000-001	1-5µl Calibrated Micropipettes	White	250
2-000-005	5µl Calibrated Micropipettes	White	250
2-000-010	10µl Calibrated Micropipettes	Orange	250
2-000-020	20µl Calibrated Micropipettes	Black	250
2-000-025	25µl Calibrated Micropipettes	Double White	250
2-000-030	30µl Calibrated Micropipettes	Double Black	250
2-000-040	40µl Calibrated Micropipettes	Yellow	250
2-000-044	44.7µl Calibrated Micropipettes	Purple/Blue	250
2-000-044-H	44.7µl Heparinised Micropipettes	Purple/Green	250
2-000-050	50µl Calibrated Micropipettes	Green	250
2-000-075	75µl Calibrated Micropipettes	Purple	250
2-000-100	100µl Calibrated Micropipettes	Blue	250
2-000-100-E	100µl Calibrated Micropipettes with EDTA	Blue	250
2-000-200	200µl Calibrated Micropipettes	Red	250
2-000-201	100-200µl Calibrated Micropipettes	Red	250
2-000-000	15" Aspirator Tube Assembly	-	Each
3-000-752	Captrol III® Microdispenser	-	Each

Hematocrit Tubes



The Plasticrit Tubes provide identical capillary action to glass haematocrit tubes. These heparinised polycarbonate capillaries have an outer diameter of 0.8mm and an inner diameter of 0.6mm. Plastic capillaries eliminate the risk of breakage that comes with glass tubes, and also effectively prevent aerosol contamination to your samples.



Hematocrit Tubes		
Catalogue Number	Description	Pack Size
1-000-800-12	Glass Hematocrit Tubes 0.4mm I.D. x 0.8mm thick x 75mm long	12 x 100
1-000-7500-C-5	Glass HEMATO-CLAD® Mylar® wrapped capillaries 75mm long	5 x 200
1-000-7500-HC-5	Glass HEMATO-CLAD® Mylar® wrapped capillaries 75mm long - Heparin-coated	5 x 200
8-000-7520-H-5	Polycarbonate 75mm long Heparin-coated Plasticrit capillaries	5 x 200

Nanoject™ III Programmable Nanolitre Injector

**NEW
range**



The Drummond Programmable Nanoject™ III Nanolitre Injector is designed for meticulous injection procedures into cellular models such as oocytes and embryos with delicate membranes.

It offers a number of state-of-the-art features to provide easy setup and operation as well as more accurate injection volumes down to 0.6 nanolitres. Potential applications have been expanded with the introduction of a user-friendly, fully programmable touchscreen located on the control box.

The intuitive touchscreen enables prompted input and execution of tasks. The operational modes enable the user to program the unit to do single manual injections, as well as multiple injection cycle recipes. The program recipes are automatically saved and labelled in sequential order.

Programmability, the lower injection volume capability plus the user's ability to select the injection rate widens the potential range of applications for the Nanoject III.

The Nanoject III does not use any O-rings to secure the micropipette. Instead, a small chuck and a silicon receiver have been incorporated for the glass micropipette. The proven hydraulic technology ensures:

- Lower injection volumes
- User selected injection rate
- Accurate and consistent injection

The Universal Power Source provides adapter plugs to enable the unit to be used in the UK, US, Europe and Australia simply by inserting the proper plug.

The Nanoject™ III Programmable Nanolitre Injector kit includes the following components:

- The control box and power source
- Injector
- Injector head cable
- Vial of 100 3.5" glass capillaries
- Vial of 100 7" glass capillaries
- Backfilling needle
- Universal adapter



Operating Modes

■ Manual Mode

Enables the user to manually fill and empty the micropipette

■ Inject Mode

Used to do single or multiple manual injections. The user can program an injection volume between 0.6 and 999.9nL, and an injection rate in nL/sec.

■ Program Mode

Enables the user to program multiple injection cycle recipes. The Recipes are automatically saved and labelled in sequential order

■ Set-Up mode

Enables the user to program and store the manual fill and empty rates. The fill and empty speeds are programmed separately to the injection rate.

Specifications

Power Source	100/240 volt, 50/60 Hz
Total Sample Volume	4.2 µL
Fill / Empty Volume Speed	10 - 200 nL/sec
Injection Volume Range	0.6 - 999.9 nL
Injection Rate	10 - 200 nL/sec
Plunger Travel	23 mm
Glass Micropipette Dimensions	OD 0.045" (1.14 mm), ID 0.021" (0.53 mm)

Nanoject™ III Programmable Nanolitre Injector

Catalogue Number	Description
3-000-207	Nanoject III Kit 100-240 volts
3-000-032	Foot Switch (remote capability for fill, empty and inject functions)

Supplied with universal adaptor for easy mounting

For accessories, please see page 32.

Nanoject™ II Autoinjector

The Drummond Nanoject™ II Auto Injector is a high performance instrument, which has been specifically designed to perform ultra-delicate nanolitre injection procedures into cells, including oocytes and embryos. Positive displacement technology and precision microcapillaries together with unique features enhance the ease of use, precise delivery of sample and protection of cells.

The automated microprocessor control delivers volumes from 2.3nl up to 69nl with complete accuracy and precision, even when sample contaminants are present. Cells are protected by the remote controlled, non-rotating plunger that eliminates vibration, minimising cell rupture.

The narrow tips and delivery volume of the Nanoject II enable injections into specimens other than *Xenopus*. Quieter and smoother than former models, the higher torque motor further reduces tip movement. A novel collet configuration holds the microcapillary more securely reducing air infiltration and oil leakage.



The Nanoject II Kit includes the following components:

- Injector head with lead
- Control box
- Power supply
- Capillary glass: 2 vials of 100 pieces per vial:
 - 3.5" capillaries, Pk100
 - 7.0" capillaries, Pk100
- Replacement O-ring kit with standard collet
- Allen key for replacing wire plunger
- Needle for backfilling capillaries/micropipettes (30 gauge x 2" length)
- Universal Adaptor to enable fitting to most micromanipulators



Operating Speed

Nanoject™ II has two speed options for each operation, allowing the user to fill and inject at half speed and facilitating the use of smaller microcapillaries.

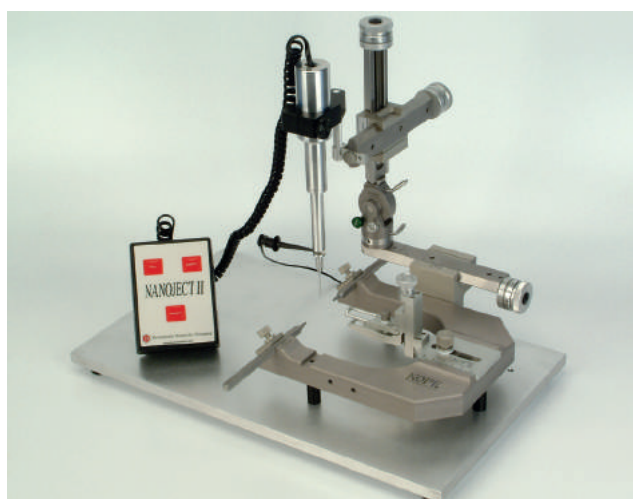
Handling of more viscous samples has also been improved, with no need for tedious recalibration if the viscosity changes.

Operation	Speed Option	Speed (nl/sec)
Fill Speed	Fast	46nl
	Slow	23nl
Injection Speed	Fast	46nl
	Slow	23nl
Empty speed	Fast	230nl
	Slow	92nl

Recording Nanoject II Injector

The Recording Nanoject II has been specifically developed to improve microvolume injection techniques in the study of connectivity and function of specific brain nuclei. When used in conjunction with an extracellular amplifier, the integrated system enables small volumes to be injected into targeted areas.

- Compatible with most popular stereotaxic instruments
- Supplied with Universal Adapter for easy mounting
- Supplements stereotaxic co-ordinates in guiding the placement of microvolume injections
- Provides direct displacement of neuronal tracer or excitotoxin from the dispenser



Nanoject II Auto Injector

Catalogue Number	Description
3-000-206A	Nanoject II Auto Injector Kit 220V UK Charger
3-000-205A	Nanoject II Auto Injector Kit 220V EURO Charger
3-000-206-RN	Recording Nanoject II Auto Injector 220V UK
3-000-026	Foot Switch for Nanoject II Auto Injector
3-000-029	Control Box For Nanoject II

Note: Universal adaptor supplied with both models for easy mounting

Nanoject Accessories

Replacement Parts

Nanoject II Replacement Parts

Catalogue Number	Description
3-000-024-A	Universal Adaptor for Nanoject II*
3-000-030-A	Replacement Injector for Drummond Nanoject II™
3-000-027	Backfilling Needle for Nanoject II Auto Injector
3-000-000-203-X	Wire Plunger for Nanoject II Auto Injector

* Can be used on stereotaxic equipment using 7.9mm clamps

Injector Tips

Two lengths of borosilicate glass (N-51-A) capillaries are available for use with Nanoject II –3.5" and 7" and are ready for pulling to the required tolerance. Once the tips are pulled, they must be "backfilled" with oil (or other non-compressible fluid) before attachment to the injector. Silicone or mineral oil is frequently used for this purpose. Backfilling is performed using a 30 gauge x 2" needle and a syringe.

The precise operation of the Nanoject Auto Injectors depends greatly on the use of tips prepared from the specific glass provided. For this reason, it is recommended that only Drummond microcapillaries are used.



Injector Tips/Replacement Glass Capillaries

Catalogue Number	O.D (mm)	Length	I.D (mm)	Pack Size
3-000-203-G-X	1.14	3.5"	0.53	100
3-000-203-G-XL	1.14	7"	0.53	100

Micromanipulators

The injector head should be mounted on a micromanipulator or stereotaxic unit using the Universal adapter supplied in the kit. The Marzhauser MM33 micromanipulator is a popular, manual model equipped with high precision and stable cross-roller bearings, which work constantly without any noticeable wear even after many years of intensive use.

The MM33 also has a number of ergonomic benefits. The control knobs for all three axes are arranged at the same level so that it can be easily operated without looking. In addition, the operational controls are at the back of the unit, allowing several devices to be easily installed side by side. A support base is available for the MM3 micromanipulator and is also compatible with other brands.

For convenient hands-free operation, an optional foot switch can be used to control the Nanoject II and Nanoject III remotely.



Nanoject Accessories

Catalogue Number	Description
3-000-024-R	Micromanipulator Model MM33 Right-Handed Configuration
3-000-024-L	Micromanipulator Model MM33 Left-Handed Configuration
3-000-025-SB	Support Base for Micromanipulator



Quality Tips and Green Solutions

Using high quality pipette tips ensures you get maximum performance and no interference in your assays.

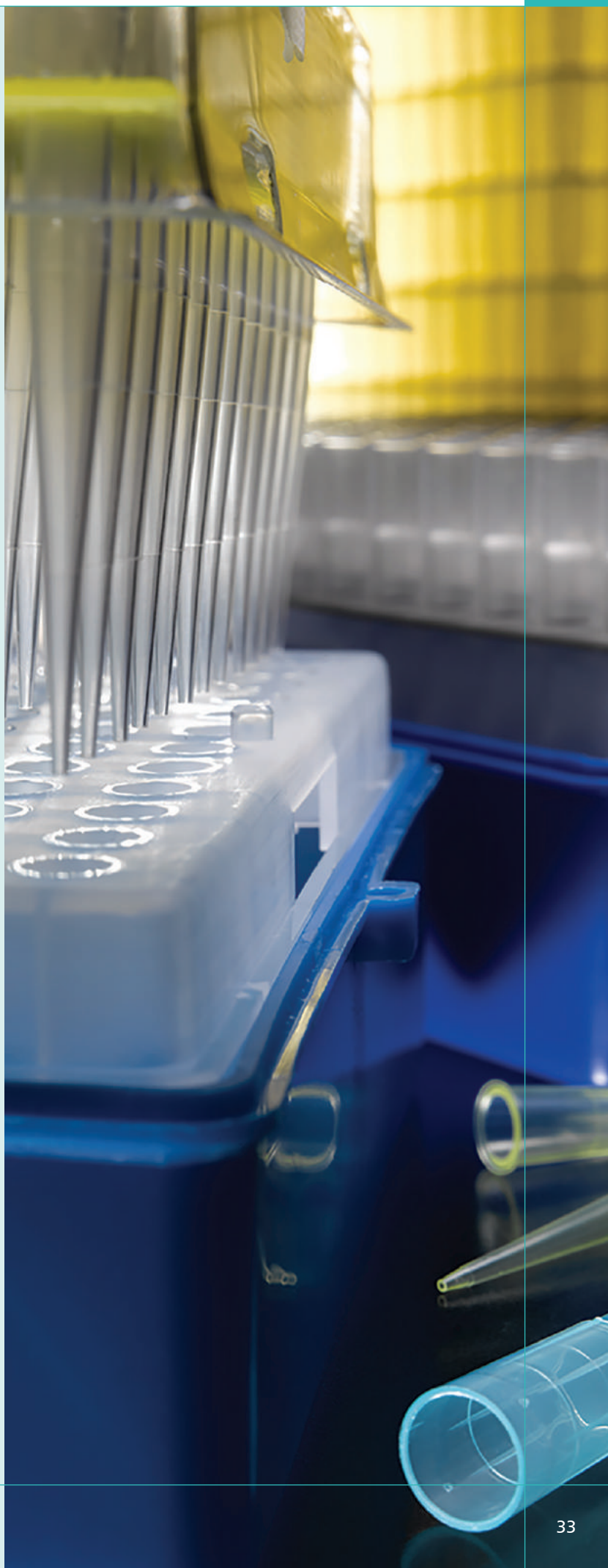
Alpha Laboratories never compromises on quality. Our tips are produced from the highest grade virgin polypropylene using computer-designed stainless steel moulds. The quality control process takes the tips through up to 92 checks from resin to final product to give you the quality reassurance you require.

Our eco-friendly packaging options include the popular Fastrak® tip refill system that gives you faster racking with less packing. Together with our Laboratree tree planting scheme it focuses on environmental sustainability.

What's New?

- Extended range of low retention tips
- Improved racks and packaging for our gel tip range
- FlexiBulk bulk tips packs that provide increased usability and improved tip purity.

Contents	Page/s
Overview of Pipette Tip Range	34
Packaging Formats and Tip Selection Guide	35
APEX® Tips	36
Fastrak® Tip Refill System	38
ZAP™ Premier Filter Tips	40
Aerogard® Filter Tips	42
Sartorius (Biohit) Non-Filter Tips	200
Sartorius (Biohit) Filter Tips	201
Other popular tips	48
Cellsaver and Gel Tips	54
Gel Loading and Cutting Tips	55
Robotic Tips	56-59

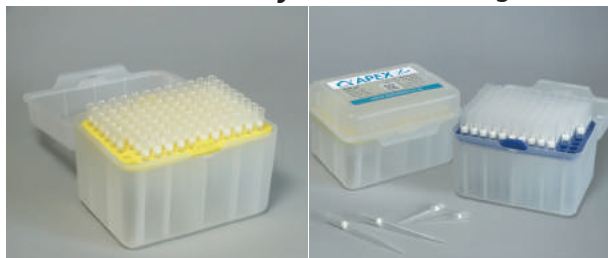


Choose the Best Pipette Tips to Meet Your Needs

Alpha Laboratories is a leading liquid handling specialist with the expertise to support your needs. Our Pipette Tip Guide can help you find the best tip for your application, your workload or your budget.

Affordable Quality

Page 36-37



APEX® Non-Filter

APEX® Filter

The APEX range of filter and non-filter tips are designed for consistent sample dispensing with the highest accuracy and precision. This range includes the most popular volume tips in both standard and extended lengths, supplied in non-sterile or sterile formats. Choose the APEX brand for exceptional value without compromising on quality.

The Most Eco-Friendly

Page 38-41



Fastrak®

ZAP™

When it comes to saving the environment, ZAP and Fastrak work perfectly together to minimise the waste generated by your laboratory. Both ZAP and Fastrak are manufactured in the same environment using 61% renewable energy, including solar power. For the greenest lab solution, choose ZAP and Fastrak.

For Specialist Applications

Page 42-45



Paradigm™ Reload

Paradigm™ Aerogard®

The Paradigm Low-Retention range of Non-Filter Reload, and Filter tips featuring Aerogard® technology, truly epitomises the perfect pipetting experience. The minimised fluid retention combined with the tapered-tip design vastly improves pipetting efficiency. Choose Paradigm for the highest accuracy while reducing the loss of your precious samples.

Sartorius Quality & Variety

Page 46-47



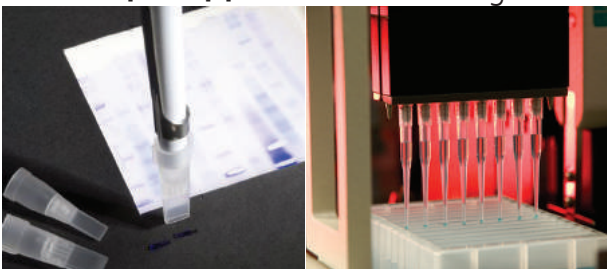
Optifit

SafetySpace™

The Sartorius range of tips offers the widest variety of high-quality packaging solutions to suit any laboratories requirements. Choose the best option for you from the Optifit range of non-filter tips, supplied bagged, in Flexibulk containers, in refill towers, refill blister-packs or in racks. The racked, sterile SafetySpace filter tips are securely packaged, guaranteeing the end-user is always the first to come in contact with the tips post-production.

For Unique Applications

Page 54-59



Gel Loading / Cutting

Robotic

Using the right tip is crucial to the credibility of your results. Once you improvise, you introduce higher inaccuracy and imprecision in your application and increase the risk of contamination. Alpha offers a range of tips for unique applications requiring specific tips such as robotic tips, gel loading tips, gel cutting tips and wide orifice tips.

Other Popular Tips

Page 48-52



Non-Filter

Filter

Alpha also supplies a wide variety of general use, filter and non-filter tips, with universal or brand-specific tip fit, and suitable for use with most popular brands of pipettes. It is important to choose the tip with the best fit for your pipette as this not only ensures leak-free performance but also greatly reduces the risk of damage to your pipettes that can result from poor-tip-fit.

Packaging Formats

We offer a comprehensive choice of packaging formats to suit your needs.



Loose

Loose tips are supplied in durable, resealable, polythene bags for hand racking or use straight from the bag. access.



FlexiBulk

Also available is the FlexiBulk packaging that can be placed on the benchtop for easy access.



Racked

Pre-racked tips are available in **non-sterile** and **sterile** options. Most non-sterile tips are autoclavable. Sterile tips have been treated with e-beam or gamma radiation and each rack is individually wrapped and sealed.



Rack Refill Stacks

Some tips, such as Sartorius (Biohit) tips, are available in space-saving refill towers which contain layers of tips in rack inserts, ready for transfer to empty tip boxes.



Fastrak® Refill System

Fastrak® is a unique, eco-friendly system for rapid refilling of racks with minimal packaging and waste.



Paradigm™ Reload

Lift-and-Load Reload system designed to simplify reloading empty racks without handling the tips preventing contamination.

Five Easy Steps to Tip Selection

By following the easy to use tip selection guide and packaging icon key below, you can make sure that the tip you require is available in the style and format that best suits your applications.

3

Check certification for suitable tips - see the details below

1

Find the make and model of your pipette

2

Find the tips which include the volume range of your pipette

4

Choose the packaging format you require

5

Select the Alpha catalogue number for your order

Tip Description and Volume Range μ l		Non-Filter
		0.1-10 μ l Micro Ultrafine
Coding and Certification		D, E, G, M, R
Pipette Make	Model	
Alpha+	Variable Volume	0.1-2.5, 0.5-10
	Fixed Volume	2.5, 5, 10
	Multi Channel	0.5-10
	Picus®/Picus®NXT Single Channel	0.2-10
	Picus®/Picus®NXT Multi Channel	0.2-10
Sartorius (Biohit)	mLINE®/Proline Plus®	0.5-10
	Proline® 1	
	Electronic	0.5-10
	Reference	0.1-2.5, 0.5-10
Eppendorf®	Research Pro	0.5-10
	Research	0.1-2.5, 0.5-10
	Research Plus	0.5-10
Gilson	Pipetman	P2, 10
	Pipetman Ultra	U2, 10
	Pipetman Classic, G, L	0.2-2, 1-10
Rainin®	EDP3	
	EDP1	
	Pipet Lite SL	0.1-2, 0.5-10
Loose	Non-Sterile	Pack Size 1000
Racked	Non-Sterile	Cat. No. LW1126
Racked	Non-Sterile	Pack Size 12 x 96
Racked	Sterile	Cat. No. LW1136
Racked	Sterile	Pack Size 12 x 96

Tip and Colour Coding for Easy Identification

The tip fit tables are colour-coded to indicate the maximum volume of your chosen tip.

White	10 μ l tip
Yellow	200 μ l tip
Blue	1000 μ l tip
Purple	Other volumes

D Tips are lot tested and certified for absence of detectable human DNA

Ds Sterile tips only are lot tested and certified for absence of detectable human DNA

E Tips are lot tested and certified for absence of detectable endotoxins (pyrogens)

Es Sterile tips only are lot tested and certified for absence of detectable endotoxins (pyrogens)

G Tips have graduations to visually check volume

M Tips are tested and certified for absence of heavy metals

N Low Retention Resin

R Tips are lot tested and certified for absence of detectable DNase and RNase

T Tips have reduced forces for mounting and ejection to avoid strain injuries

U Tips have a thin, flexible point which allows the last drop to be dispensed easily

APEX® Tips

You should never have to compromise on quality. With the APEX® range of pipette tips you don't have to.

Designed for consistent sample dispensing with the highest accuracy and precision.

The Affordable Choice

The APEX® range of pipette tips is the newest addition to Alpha Laboratories' wide selection of liquid handling consumables. Manufactured in a state of the art production facility, APEX® tips are an excellent choice for laboratories looking for quality and affordability.



Manufactured to Improve Pipetting Precision

Each tip is graduated for easy volume checking, while the conical tip opening prevents drop formation at the end of the tip. This minimises sample loss and further improves pipetting precision.







All the tips are manufactured from virgin polypropylene and filtered tips feature a hydrophobic polyethylene filter. The filter is manufactured from contaminant-free virgin resin with an average pore size of 5-20µm. This acts to block aerosols as well as vapour, radioactive, biohazardous or corrosive samples.

The tips have a universal fit with enhanced cone geometry. This ensures compatibility with a wide range of popular brand pipette models, including the **alpha+** range of pipettes.













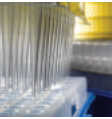
Certified and Quality Assured

Every batch of tips is required to pass the highest level of Quality Assurance testing. The tips are certified metal free as well as RNase, DNase DNA, Pyrogen and PCR Inhibitor free. Sterile tips are further e-beam irradiated to ensure there is no contamination of your precious sample.

		Non-Filtered		
Tip Description and Volume Range μ l		0.1-10 μ l	0.1-10 μ l XL	
Coding and Certification (see page 35)		D,G,M,R,T,U	D,G,M,R,T,U	
Pipette Make	Model	Pipette Volume Range μ l		
Alpha	alpha+ Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
	alpha+ Fixed Volume	2.5, 5, 10	2.5, 5, 10	
CAPP	CAPPBravo, ecopipette and CAPPAero Single Ch	0.2-2, 0.5-10	0.2-2, 0.5-10	
	CAPP electronic and CAPPAero Multi Ch	0.5-10, 2-20	0.5-10, 2-20	
Finnpipette	Finnpipette Digital	0.5-10	0.5-10	
Sartorius Biohit	Picus [®] /Picus NXT [®]	0.1-3, 0.5-10	0.1-3, 0.5-10	
	eLINE [®]	0.1-3, 0.5-10	0.1-3, 0.5-10	
	mLINE [®]	0.1-3, 0.5-10	0.1-3, 0.5-10	
	Proline [®] Plus	0.1-3, 0.5-10	0.1-3, 0.5-10	
	Proline [®]	0.1-3, 0.5-10	0.1-3, 0.5-10	
Brand	Transferpette [®]	0.5-10	0.5-10	
Eppendorf	Research [®] Plus	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	
Gilson	Pipetman [®]	0.2-2, 1-10	0.2-2, 1-10	
Rainin	Classic, universal shaft	0.1-2, 0.5-10	0.1-2, 0.5-10	
VWR, Labnet, HTL	Mechanical pipettes	0.1-2, 0.5-10	0.1-2, 0.5-10	
<div>Tip Coding and Certification</div> <div>Key available - see page 35</div> <div><div><div><div>samples</div><div>available</div></div><div><div><div>121°C</div><div>autoclavable</div></div><div><div><div>CERTIFIED FREE</div><div>RNase DNase Pyrogen & Human DNA</div><div>CERTIFIED FREE</div></div></div><div>(Non-filter only)</div></div><div></div></div></div>				
All tips are actual size				
Loose Non-Sterile		Product Code	AT0010L	AT0010XLL
		Pack Size	1000	1000
Racked Non-Sterile		Product Code	AT0010R	AT0010XLR
		Pack Size	10 x 96	10 x 96
Racked Sterile		Product Code	AT0010RS	AT0010XLRS
		Pack Size	10 x 96	10 x 96

Liquid Handling - Pipette Tips

Non-Filtered					Filtered				
1-200µl	1-200µl Yellow	100-1000µl	100-1000µl Blue	100-1250µl	0.1-10µl	0.1-10µl XL	1-200µl	100-1000µl	100-1250µl
D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U	D,G,M,R,T,U
Pipette Volume Range µl									
2-20, 5-50, 10-100, 20-200, 30-300	2-20, 5-50, 10-100, 20-200, 30-300	100-1000	100-1000	100-1000	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	10-100, 20-200, 30-300	100-1000	100-1000
20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	500, 1000	500, 1000	500, 1000	2.5, 5, 10	2.5, 5, 10	200	500, 1000	500, 1000
2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	100-1000	100-1000	100-1000	0.2-2, 0.5-10	0.2-2, 0.5-10	2-20, 5-50, 10-100, 20-200	100-1000	100-1000
5-50, 10-100, 20-200	5-50, 10-100, 20-200	100-1200	100-1200	100-1200	0.5-10, 2-20	0.5-10, 2-20	5-50, 10-100, 20-200	100-1200	100-1200
2-20, 5-50, 20-200	2-20, 5-50, 20-200	100-1000, 200-1000	100-1000, 200-1000	100-1000, 200-1000	0.5-10	0.5-10	5-50, 20-200	100-1000, 200-1000	100-1000, 200-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-3, 0.5-10	0.1-3, 0.5-10	10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-3, 0.5-10	0.1-3, 0.5-10	10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-3, 0.5-10	0.1-3, 0.5-10	10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-3, 0.5-10	0.1-3, 0.5-10	10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-3, 0.5-10	0.1-3, 0.5-10	10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.5-10	0.5-10	20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.5-10	0.1-2.5, 0.5-10	20-200	100-1000	100-1000
2-20, 20-100, 50-200	2-20, 20-100, 50-200	100-1000, 200-1000	100-1000, 200-1000	100-1000, 200-1000	0.2-2, 1-10	0.2-2, 1-10	2-20, 10-100, 50-200, 20-200	100-1000, 200-1000	100-1000, 200-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-2, 0.5-10	0.1-2, 0.5-10	2-20, 10-100, 20-200	100-1000	100-1000
2-20, 10-100, 20-200	2-20, 10-100, 20-200	100-1000	100-1000	100-1000	0.1-2, 0.5-10	0.1-2, 0.5-10	2-20, 10-100, 20-200	100-1000	100-1000
									
AT0200L	AT0200YLL	AT1000L	AT1000BLL	AT1250L					
1000	1000	1000	1000	1000					
AT0200R		AT1000R		AT1250R					
10 x 96		8 x 96		8 x 96					
AT0200RS		AT1000RS		AT1250RS	AT0010RSF	AT0010XLSF	AT0200RSF	AT1000RSF	AT1250RSF
10 x 96		8 x 96		8 x 96	10 x 96	10 x 96	10 x 96	8 x 96	8 x 96



Fastrak® Tip Rack Refill System – tip refills redefined

Fastrak® is an ingenious, pipette tip refill system, designed to reduce waste, save time and help you lower your carbon footprint. Compared with other refill systems, it is smaller, lighter and has less packaging.

- Simple to use
- Maximises storage space
- Eco-friendly – 95% renewable packaging materials
- Low packaging weight – reduces fuel used in transportation
- BioPolymer base and vegetable-based printing inks
- Uses quality Alpha tips made from 100% virgin polypropylene
- Made using 30% Solar Power

How **Fastrak®** works



1. Open **Fastrak®** and grasp transfer top. Lift straight up.



2. Align transfer top over rack and lower the refill into position.



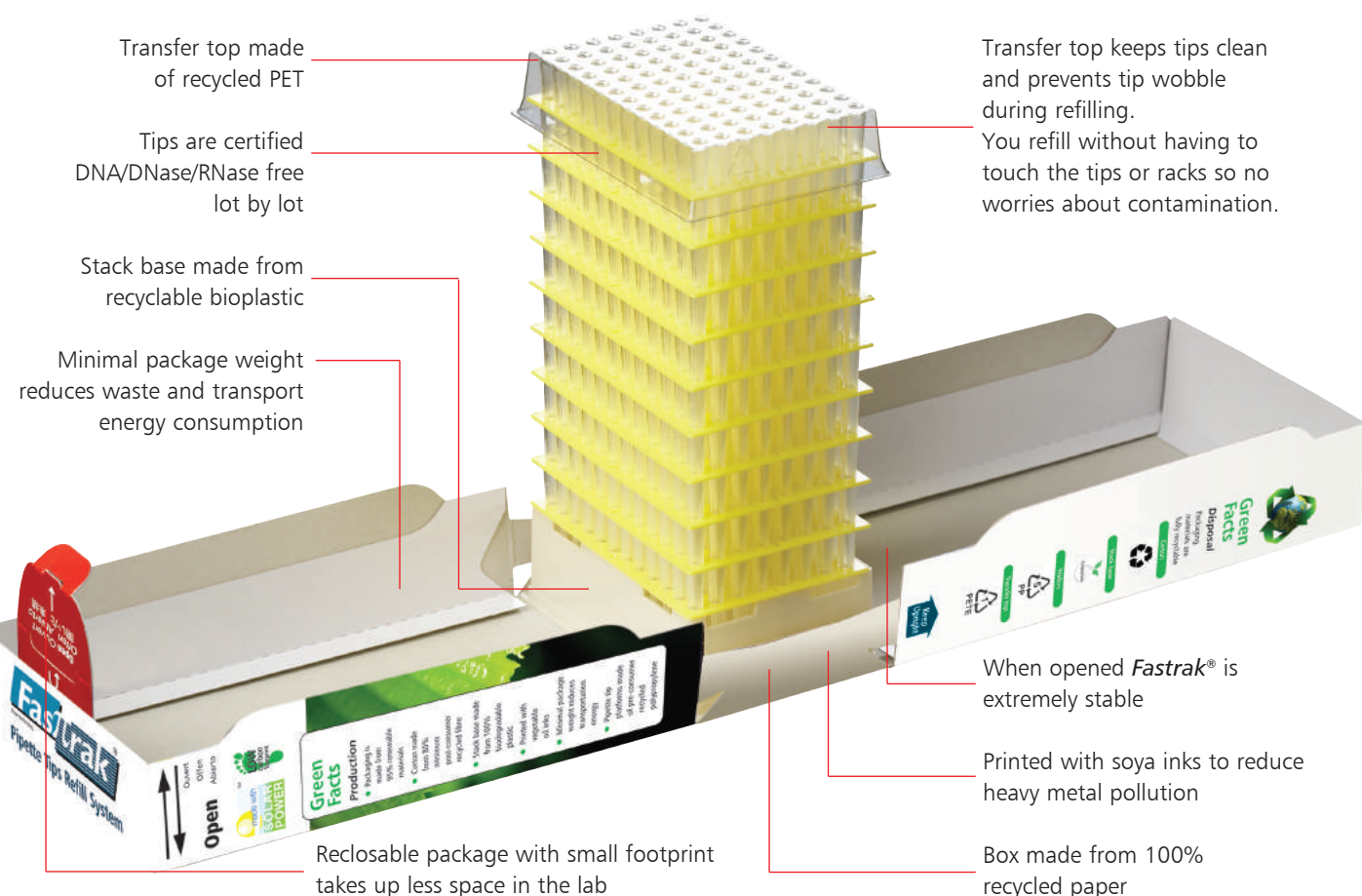
3. Push down on transfer top to release refill plate. Return transfer top to **Fastrak®** refill stack and close.

Fast racking

Less packing

Quality tips

See a demonstration video online at www.alphalabs.co.uk



Tip Fit

Fastrak tips are compatible with a wide range of single and multi-channel pipettes including:

- alpha+
- Sartorius
- Gilson
- Eppendorf
- Thermo Finnpiptette
- Thermo Matrix
- Rainin
- Brand

Naturally it is vital to have a good tip fit for your particular pipette. The ability of a tip to fit a pipette can vary even for the same brand and model due to:

- tip cone wear
- manufacturers' use of different tip cones in various geographic locations
- new designs and improvements

The compatibility of our tips with new and existing models is checked on a regular basis and an up-to-date tip fit guide is available on our website. To download your copy, visit www.alphalabs.co.uk/fastrak-tip-fit. We do however recommend that you still test out the fit of your chosen tip on your particular pipette. Please contact us for samples.














Formats

- **Autoclavable** – **Fastrak** tips and racks can be autoclaved at 121°C for 15 minutes (15 PSI)
- **Ultrafine** – Most of the **Fastrak** tips are 'Ultrafine' and feature a thin, flexible section at the end which is non-bevelled. This facilitates the dispensing of every drop of sample from the tip.
- **Racks** – It is quick and easy to refill your used Alpha tip racks or alternatively, we can supply you with free empty racks to get you started. There is a choice of square or round-holed racks for tips up to 250µl. Round-holes are particularly good for multichannel pipettes as they have an anti-wobble feature.

samples available

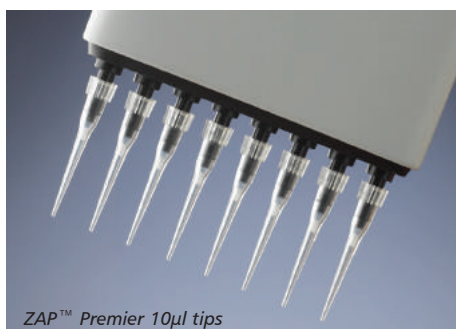
Empty Racks

Catalogue Number	Description	Colour	Compatibility Code	Pack Size
FR9200	Square-holed Racks for 10,20,200 & 250µl Tips	Blue	C	10
FR9500	Round-holed Racks for 10,20,200 Tips	Blue	A	10
FR9000	Square-holed Racks for 300,1000 & 1250µl Tips	Blue	B	6

		0.1-10µl Ultrafine Micro	0.1-10µl Ultrafine Extended	1-200µl Universal Bevel	1-200µl Reference Bevel	1-200µl Reference Ultrafine	1-300µl Ultrafine	100-1250µl Ultrafine	0.1-20µl Ultrafine Rainin LTS *	0.5-250µl Ultrafine Rainin LTS *	100-1000µl Ultrafine Rainin LTS *	
Tip Cat No.		FR1015	FR1010	FR1200	FR2200	FR0250	FR1300	FR1250	FR3020	FR3250	FR3000	
Tip Fit Picus®/Nxt Single Channel		0.1-10	0.2-10	5-120,10-300	5-120,10-300	5-120,10-300	5-120,10-300					
Tip Fit Picus®/Nxt Multi Channel		0.2-10	0.2-10	5-120,10-300	5-120,10-300	5-120,10-300	5-120					
Tip Fit alpha+ Variable Volume		0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	100-1000				
Tip Fit alpha+ Fixed Volume		2.5, 5, 10	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	250, 500, 1000				
Tip Fit alpha+ Multi Channel		0.5-10	0.5-10	5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300	100-1000				
<div></div> <div></div> <div></div>												
		Cat. No.	FR1015	FR1010	FR1200	FR2200	FR0250	FR1300	FR1250	FR3020	FR3250	FR3000
		Pack Size	13 x 96	14 x 96	10 x 96	10 x 96	10 x 96	6 x 96	5 x 96	11 x 96	10 x 96	5 x 96
		Rack Compatibility	A / C	A / C	A / C	A / C	A / C	B	B	A / C	C	B

All tips illustrated are actual size unless otherwise stated *LTS (*Lite Touch System) is a trademark of Mettler Toledo

ZAP™ Premier Filter Tips



ZAP™ Premier 10µl tips

- The ultimate in pipette and sample protection
- Perfect for PCR and other demanding applications

ZAP™ Premier filter tips give you ultimate protection for both your pipette and sample without making a big hole in your budget. There is a wide range to fit most brands of pipette.

Protect your Pipette

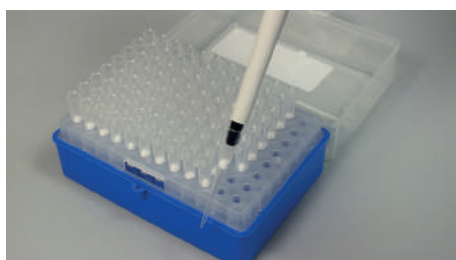
ZAP™ Premier filter tips feature a unique 10µm pore size filter. These pores are 100% smaller than those in most other filter tips and effectively trap aerosols containing DNA, radionucleotides and other contaminants, preventing them from entering the barrel of the pipette and keeping it clean.

Protect your Sample

The filter also works to protect your sample. It blocks fluid passage so that in the event of over-pipetting, your sample will not be absorbed and can be completely dispensed without any loss. Contamination of the sample by the filter is avoided as it is made from high purity polyethylene and inserted robotically into the tip. Every batch of tips is tested and certified to be free of RNase, DNase, Human DNA. They are also certified as non-pyrogenic including the filter.

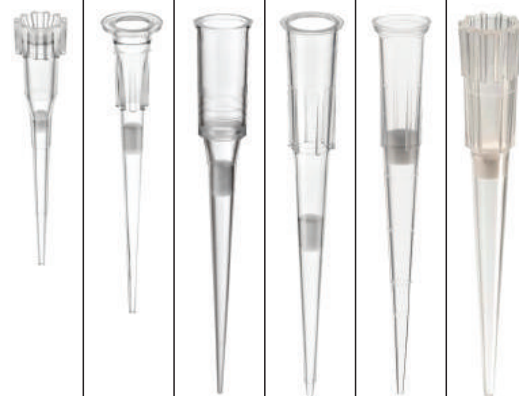
Protect your Budget

ZAP™ Premier filter tips are sensibly priced to take account of restricted budgets and what's more, due to the high density of the filter, ZAP™ Premier filter tips are autoclavable. That means, if you don't use the entire box of tips, they need not be wasted. You can sterilise them again and the filters will not warp.



Tip Description and Volume Range µl		1-10 µl ZAP Premier Micro	1-10 µl ZAP Premier Extended	1-20 µl ZAP Premier LTS*	1-40 µl ZAP Premier Bevel	1-50 µl ZAP Premier Reference	1-100µl ZAP Premier Bevel
Coding and Certification (see page 35)		D,E,G,M,R,U	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R	D,E,G,M,R,U	D,E,M,R
Pipette Make	Model	Pipette Volume Range µl					
alpha+	Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10		5-50		10-100
	Fixed Volume	2.5, 5, 10	2.5, 5, 10		20, 40, 50		100
	Multi Channel	0.5-10	0.5-10		5-50	5-50	10-100
Sartorius (Biohit)	Picus®/Nxt Single Channel	0.2-10	0.2-10		5-120	5-120, 10-300	5-120, 10-300
	Picus®/Nxt Multi Channel	0.2-10	0.2-10		5-120	5-120, 10-300	5-120, 10-300
	eLINE®	0.2-10	0.2-10				
	Tacta	0.1-3, 0.5-10	0.1-3, 0.5-10		2-20	5-100, 10-100	10-100
	mLINE/Proline+	0.1-3, 0.5-10	0.1-3, 0.5-10		2-20	5-100, 10-100	10-100
	Proline® 1	0.5-10	0.5-10			10-100	
Eppendorf®	Electronic	0.2-10	0.2-10		5-100	5-100	5-100
	Reference	0.1-2.5	0.1-2.5		2-20	10-100	10-100
	Research Pro	0.5-10	0.5-10			5-100	5-100
	Research	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10		2-20	10-100	10-100
Gilson	Research Plus	0.5-10	0.5-10		2-20	10-100	
	Pipetman	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	20-100
	Pipetman Ultra	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	
Rainin®	Pipetman Classic,G,L	0.2-2, 1-10	0.2-2, 1-10		2-20	20-100	20-100
	EDP3	0.5-10	0.5-10	2-20	2-20		10-100
	EDP1	0.5-10	0.5-10	2-20	2-20		10-100
	Pipet Lite SL	0.1-2, 0.5-10	0.1-2, 0.5-10	0.1-2, 0.5-10, 2-20	2-20	10-100	
Thermo Electron Finnpipette™	Classic						
	Digital	0.2-10, 0.5-10	0.2-10, 0.5-10		2-20		
	Focus	0.2-2, 0.5-5, 1-10	0.2-2, 0.5-5, 1-10		2-20	10-100	10-100
	Biocontrol	0.3-3, 0.5-5, 1-10	0.3-3, 0.5-5, 1-10			10-100	10-100 (SC)
	Novus	1-10	1-10				
Finnpipette 4500							












Tip Coding and Certification
Key available - see page 35



All tips illustrated are actual size unless otherwise stated

Racked Sterile	Cat. No.	ZP1015S	ZP1010S	ZP3020S	ZP1204S	ZP0250S	ZP2100S
		Pack Size	12 x 96	10 x 96	10 x 96	10 x 96	10 x 96

*LTS = Lite Touch System, a trademark of Rainin/Mettler Toledo

1-100µl ZAP Premier Ref. Bevel	1-100µl ZAP Premier Bevel	1-160µl ZAP Premier Bevel	1-200µl ZAP Premier	1-200µl ZAP Premier LTS*	1-300µl ZAP Premier Bevel	1-300µl ZAP Premier Extended	100-1000µl ZAP Premier	100-1000µl ZAP Premier Flextop	100-1000µl ZAP Premier LTS*	Tip Description and Volume Range µl
D,E,G,M,R,U	D,E,M,R	D,E,M,R	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R	D,E,M,R,U	D,E,M,R,U	D,E,M,R,T,U	D,E,M,R,T,U	Coding and Certification (see page 35)
Pipette Volume Range µl										Model Pipette Make
10-100	10-100	10-100	10-100, 20-200		20-200	20-200	100-1000	100-1000		Variable Volume
100	100	100	100, 200		200	200	250, 500, 1000	250, 500, 1000		Fixed Volume
5-50, 10-100	5-50, 10-100	5-50, 10-100	5-50, 10-100, 20-200		20-200, 30-300	20-200, 30-300	100-1000	100-1000		Multi Channel
5-120, 10-300	5-120, 10-300	10-300	10-300		10-300	10-300				Picus®/Nxt Single Channel
5-120, 10-300	5-120, 10-300	10-300	10-300		10-300	10-300				Picus®/Nxt Multi Channel
		5-120					50-1000	50-1000		eLINE®
10-100	10-100, 20-200(SC)		20-200		20-200					Tacta
10-100	10-100, 20-200(SC)		20-200		20-200		100-1000	100-1000		mLINE®/Proline+
10-100	10-100	5-50	50-200		10-250	50-200, 50-300	200-1000	200-1000		Proline® 1
5-100	5-100									Electronic
10-100	10-100	50-200	5-100		50-200	50-200	100-1000	100-1000		Reference
5-100	5-100	5-100	50-200			20-200(SC) 30-300(MC)	50-1000	50-1000		Research Pro
10-100	10-100	20-200	20-200		20-200	20-200(SC) 30-300(MC)	100-1000	100-1000		Research
10-100	10-100		20-200 (Not M/C)		20-200	20-200	100-1000	100-1000		Research Plus
20-100	20-100	50-200	50-200		50-200	50-200	200-1000	200-1000		Pipetman
20-100	20-100	20-200	20-200		20-200	20-200	200-1000	200-1000		Pipetman Ultra
20-100	20-100		20-200		50-200	50-200	200-1000	200-1000		Pipetman Classic, G,L
			20-200	5-50, 20-200	20-200	20-300	100-1000	100-1000	100-1000	EDP3
			20-200	10-100, 20-200		20-300	100-1000	100-1000	100-1000	EDP1
10-100	10-100		20-200	10-100, 20-200	20-200	20-300	100-1000	100-1000	100-1000	Pipet Lite SL
										Classic
		20-200					100-1000	100-1000		Digital
10-100	10-100					30-300(MC)	200-1000	200-1000		Focus
10-100(SC)	10-100(SC)					30-300	100-1000	100-1000		Biocontrol
							100-1000	100-1000		Novus
										Finnpipette 4500
										Refill Your Empty Racks ZAP™ Premier tip racks are compatible with the Fastrak tip refill system so you can re-use your filter racks once empty, for a greener solution. See page 38-39 for details. Tip Fit SC = Single Channel M/C = Multichannel We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice. Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette. <i>All tips illustrated are actual size unless otherwise stated</i>
ZP2200S 10 x 96	ZP1200S 10 x 96	ZP1210S 10 x 96	ZP2250S 10 x 96	ZP3250S 10 x 96	ZP3300S 10 x 96	ZP1300S 6 x 96	ZP1250S 6 x 96	ZP1100S 6 x 96	ZP3000S 6 x 96	
										Cat. No. Pack Size  Racked Sterile

*LTS = Lite Touch System, a trademark of Rainin/Mettler Toledo



Paradigm™ – setting a new standard

Paradigm™ Pipette Tips were created to improve pipetting accuracy while also increasing throughput. The innovation begins with a proprietary resin that ensures the sample will not bind to the tip so it is dispensed completely. Physical design characteristics like thin walls and a finely tapered tip point, facilitate sample release and eliminate the need to touch off the pipette tip.

Filtered Tips

Paradigm filtered pipette tips offer an extra level of confidence and control by providing a barrier between the nose cone of the pipettor and the sample.

The Paradigm filter membrane:

- Composed of high-density polyethylene (HDPE)
- Contains no additives that can contaminate samples if encountered
- Provides a barrier against contamination, but will not impede airflow
- Hydrophobic properties prevent absorption of samples

Filtered Tips

Clean Liquid Release

Low Retention

Clean Liquid Release

Paradigm tips administer a virtually clean sample release, guaranteeing minimal time is spent waiting for the last drop to fall from the tip. Users will maintain complete control, even when working with smaller volumes, without compromising the accuracy and precision of their pipetting.

Low Retention

Considerably more hydrophobic than standard tips, Paradigm tips enable even viscous fluids to be dispensed more completely.

Paradigm Reload System

The Paradigm Reload system was designed to simplify the process of refilling empty racks. No special alignment tools are required to quickly transfer a fresh set of tips to an empty rack - simply lift and load! Paradigm Reloads are also sympathetic of the environment and convenient to store, with stacked refills generating far less lab waste and requiring less shelf space than racked product.







The Paradigm Reload system is kept in paperboard packaging, making it widely accepted by most institutional recycling preferences and processes.



Empty Racks

Catalogue Number	Description	Colour	Compatibility Code	Pack Size
4A202-000000-020	Rack for 10-300µl Reload Tips Paradigm™	Yellow	D	20
4A404-000000-020	Rack for 1250µl Reload Tips Paradigm™	Blue	E	20



		Low Retention		
Tip Description and Volume Range μ l		0.5-10 μ l Extended Low Retention	1-200 μ l Low Retention	100-1250 μ l Low Retention
Coding and Certification (see page 35)		E,N	E,G,N	E,G,N
Pipette Make	Model			
alpha+	Variable Volume	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	100-1000
	Fixed Volume	2.5, 5, 10	20, 25, 40, 50, 100, 200	250, 500, 1000
	Multi Channel	0.5-10	5-50, 10-100, 20-200	
Sartorius (Biohit)	Picus® /Nxt Single Channel			
	Picus® /Nxt Multi Channel			
	eLINE®			
	Tacta/mLINE®/Proline+	0.1-3,0.5-10	2-20, 10-100, 20-200 (5-100 M/C)	100-1000
Eppendorf®	Proline® ¹	0.1-2.5,0.5-10	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	100-1000
	Electronic			
	Reference	0.1-2.5, 0.5-10, 2-20 micro	2-20,10-100, 50-200	
	Research Pro			
Gilson	Research			
	Research Plus	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100,20-200 (M/C 10-100)	100-1000
	Pipetman			
	Pipetman Ultra			
Rainin®	Pipetman Classic,G,L	0.2-2, 1-10	2-20, 20-100, 50-200	100-1000
	EDP3			
	EDP1			
	Pipet Lite SL	0.1-2, 0.5-10	2-20,10-100, 20-200	100-1000
Thermo Electron Finnpipette™	Classic			
	Digital			
	Focus			
	Biocontrol			
Finnpipette 4500	Novus			
	Finnpipette 4500	0.2-2, micro,0.5-5, micro	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	100-1000
<div>Tip Fit</div> <p>We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice.</p> <p>Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.</p> <p><i>All tips illustrated are actual size unless otherwise stated</i></p>				
		Filter Tips available	Filter Tips available	
Loose Non-Sterile		Cat. No.	RLD-10XLNS	RLD-250NS
		Pack Size	10x96	8x96
Racked Reload		Cat. No.		
		Pack Size		
Racked Sterile		Cat. No.		
		Pack Size		
Rack Compatibility		D	D	E

Paradigm™ Aerogard Filter Tips



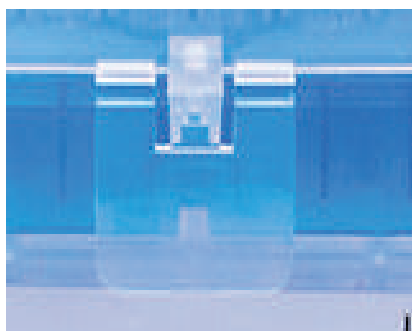
Paradigm racks are labelled with volume and lot information for easy identification



The racks are robustly designed to withstand multiple autoclave cycles



Paradigm Racks are designed to elevate the tips relative to the base in order to facilitate offset pipetting



Latch design enables easy one-handed operation as well as a secure close when not in use














Sterile product is preserved in easy-to-open, tear-band shrink wrap



Tabs on the ends of reload grids are manufactured to the identical height of the box, and will not interfere with multi-channel pipettors



Tip Description and Volume Range μ l		Low Retention						
		1-10 μ l Aerogard® Reference	2-20 μ l Aerogard® Reference	10-100 μ l Aerogard® Reference	20-200 μ l Aerogard® Reference	200 μ l XL Aerogard® Reference	1-300 μ l Aerogard® Reference	100-1250 μ l Aerogard® Reference
Coding and Certification (see page 35)		D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R	D,E,G,M,N,R
Pipette Make	Model							
alpha+	Variable Volume	0.1-2.5, 0.5-10	2-20		5-50	2-20		10-100
	Fixed Volume	2.5, 5, 10	2-20		20, 40	2-20		100
	Multi Channel	0.5-10				5-120, 10-300	5-50	10-100
Sartorius (Biohit)	Picus®/Picus® Nxt Single Channel	0.2-10	5-120, 10-300	10-300				
	Picus®/Picus® Nxt Multi Channel	0.2-10						
	eLINE®							
	Tacta/mLINE®/Proline Plus®	0.1-3, 0.5-10	2-20, 10-100	20-200	20-200	2-20, 10-100	2-20, 10-100, 20-200 (M/C 5-100 30-300)	100-1000
Eppendorf®	Proline® ¹	5-50	5-50	5-50, 50-200	50-200	5-50	2-20, 5-50, 10-100, 20-200 (M/C 5-50, 50-300)	100-1000
	Electronic							
	Reference	0.1-20	2-20, 10-100	1-100, 50-200		2-20, 10-100	2-20, 10-100, 50-200	
	Research Pro							
Gilson	Research	0.1-2.5, 0.5-10	2-200	1-100, 20-200		2-200		
	Research Plus						2-20, 10-100, 20-200 (M/C 10-100, 30-300)	100-1000
	Pipetman	P2, 10	P20, 100	P200	P200	P20, 100		
Rainin®	Pipetman Ultra	U2, 10	U20, 100	U200	U200	U20, 100		
	Pipetman Classic, G, L						2-20, 20-100, 50-200	200-1000
	EDP3							
Thermo Electron Finnpipette™	EDP1							
	Pipet Lite SL						2-20, 10-100, 20-200	100-1000
	Classic							
Thermo Electron Finnpipette™	Digital		5-40	5-200	40-200, 50-200	5-40		
	Focus	1-10	1-10, 10-100	10-100, 30-300	10-100, 30-300	1-10, 10-100		
	Biocontrol							
	Novus							
Finnpipette™	Finnpipette 4500						0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50, 50-300)	100-1000
Tip Coding and Certification Key available - see page 35   								
Paradigm Aerogard® Filter Tips provide excellent protection for your sample and instruments from cross-contamination due to aerosols. They are great for PCR as well as handling radioisotopes, serological samples and viruses. Volumes range from 10 μ l-1250 μ l ensuring a tip for any application. <i>All tips illustrated are actual size unless otherwise stated</i>								
Racked Sterile 	Cat. No.	SRPT-10XLNSF	SRPT-250NSFA	SRPT-250NSFB	SRPT-250NSF	SRPT-200XLNSF	SRPT-300NSF	SRPT-1250NSF
	Pack Size	10 x 96	10 x 96	10 x 96	10 x 96	6 x 96	10 x 96	8 x 96

1. Also labelled as Jencons Sealpette and as Genex.

Liquid Handling - Pipette Tips

Sartorius (Biohit) Optifit Non-Filter Tips

samples
available



sartorius

Sartorius tips have been developed to perfectly match Sartorius (Biohit) pipettes.

By developing and producing both pipettes and tips, Sartorius is able to offer the best possible compatibility and pipetting results.

Tip trays are colour-coded to match the volume identifier on Sartorius pipettes.

Volume Range μ l	0.1-10 μ l	0.1-10 μ l Extended	0.5-200 μ l	0.5-350 μ l	10-1000 μ l	50-1200 μ l	50-1200 μ l Extended	100-5000 μ l	1.0-10ml
Tip I.D. (See Pipette pages to verify tip fit)	A	B	C	D	E	H	Z	J	U
Tray Colour									
<i>FlexiBulk Packs</i>									
<i>Racked tips</i>									
<i>Refill pack</i>									
<i>Refill tower</i>									
FlexiBulk Packs Non-Sterile	Cat. No.		LH-B790204	LH-B790354	LH-B 791004	LH-B791204			
	Pack Size		960	960	480	480			
Loose Non-Sterile	Cat. No.	790014						780300/780308	780310/780316
	Pack Size	1000						100/1000	100/250
Racked Non-Sterile	Cat. No.	790010	783210	790200	790350	791000	791200	791210	780304
	Pack Size	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	50
Racked Sterile	Cat. No.	790011	783211	790201	790351	791001	791201	791211	780305
	Pack Size	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	50
Refill Pack Non-Sterile	Cat. No.	790013				791002	791202	791212	
	Pack Size	20 x 96				10 x 96	10 x 96	10 x 96	
Refill Pack Sterile	Cat. No.			790203	790353	791003	791203	791213	
	Pack Size			15 x 96	15 x 96	10 x 96	10 x 96	10 x 96	
Refill Tower Non-Sterile	Cat. No.	790012		790202	790352				
	Pack Size	10 x 96		10 x 96	10 x 96				

All tips illustrated are actual size apart from 780300 and 780316 which are 85% actual size

Sartorius (Biohit) Filter Tips

samples
available



Sartorius filter tips are manufactured to perfectly match Sartorius (Biohit) pipettes. As a result, you have the assurance of an excellent fit and seal, giving the best possible performance.

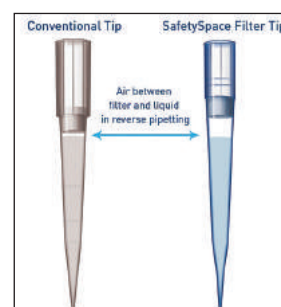
Sartorius (Biohit) SafetySpace™ Filter Tips










These tips have been designed to leave a larger than normal air space between the sample and the filter. This avoids the problem of the sample coming into contact with the filter and is particularly useful in the following applications which require an extra volume in the tip:

- Pipetting foaming liquids such as buffers and proteins
- Pipetting solvents
- Multiple dispensing functions of electronic pipettes
- Reverse pipetting

Sartorius (Biohit) Standard Filter Tips

This is a small selection of tips from the original Biohit filter tip range with a standard air space between the sample and the filter. These tips have been retained for speciality applications.










		SafetySpace™ Filter Tips							
Volume Range μ l		0.1-10 μ l	0.1-10 μ l	0.5-20 μ l	2-120 μ l	5-200 μ l	5-300 μ l	50-1000 μ l	50-1200 μ l
Tip I.D. (See Pipette pages to verify tip fit)		L	M	N	O	P	Q	S	T
Tray Colour									
 SafetySpace™									
Racked Sterile	Cat. No.	790011F	783201	790021F	790101F	790201F	790301F	791001F	791211F
	Pack Size	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96	10 x 96

All tips illustrated are actual size unless otherwise stated










Empty Boxes for Sartorius Tip Refill System (Tips and trays are not included)

Catalogue Number	Description	Tip I.D.	Tip Volume (non-filter)	Pack Size
790910	Empty Tip Box for Refill System	A, C, D	10, 300, 350 μ l	10
790920	Empty Tip Box for Refill System	E, H	1000, 1200 μ l	10

Other Popular Tips








Tip Description and Volume Range μ l		Low Retention						1-50 μ l Filter
		0.1-10 μ l Micro Low Retention	0.5-10 μ l Extended Low Retention	1-200 μ l Low Retention	1-300 μ l Low Retention	100-1250 μ l Low Retention	0.1-10 μ l Filter Reference	
Coding and Certification (see page 35)		Ds,E,N	E,N	E,G,N	E,G,N	E,G,N	D,E,G,M,N,R	D,E,M,R
Pipette Make	Model							
alpha+	Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	100-1000	0.1-2.5, 0.5-10	1-50
	Fixed Volume	2.5, 5, 10	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	250, 500, 1000	2.5, 5, 10	50
	Multi Channel	0.5-10	0.5-10	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300		0.5-10	
Sartorius (Biohit)	Picus®/Nxt Single Channel						0.2-10	
	Picus®/Nxt Multi Channel						0.2-10	
	eLINE®							
	Tacta/mLNE/Proline+	0.1-3, 0.5-10	0.1-3, 0.5-10	2-20, 10-100, 20-200 (5-100 M/C)	2-20, 10-100, 20-200 (M/C 5-100 30-300)	100-1000		
	Proline® ¹	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	2-20, 5-50, 10-100, 20-200 (M/C 5-50, 50-300)	100-1000		5-50
Eppendorf®	Electronic							5-100
	Reference	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100, 50-200	2-20, 10-100, 50-200		0.5-10, 2-20	
	Research Pro							5-100
	Research						0.5-10	2-20
	Research Plus	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100, 20-200 (M/C 10-100)	2-20, 10-100, 20-200 (M/C 10-100, 30-300)	100-1000		
Gilson	Pipetman						P2, 10	
	Pipetman Ultra						U2, 10	
	Pipetman Classic, G, L	0.2-2, 1-10	0.2-2, 1-10	2-20, 20-100, 50-200	2-20, 20-100, 50-200	100-1000		
Rainin®	EDP3							
	EDP1							
	Pipet Lite SL	0.1-2, 0.5-10			2-20, 10-100, 20-200	100-1000		
	Classic							
Thermo Electron Finnpipette™	Digital							5-50
	Focus						1-10 (micro)	5-50
	Biocontrol							5-50
	Novus							
	Finnpipette 4500	0.2-2, micro, 0.5-5, micro	0.2-2, micro, 0.5-5, micro	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50, 50-300)	100-1000		
Tip Fit We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice. Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette. <i>All tips illustrated are actual size unless otherwise stated</i>								
		Filter Tips available	Filter Tips available	Filter Tips available	Filter Tips available			
Loose Non-Sterile	Cat. No.	LP010N	LP010XLN	LP200N		LP1250N		
	Pack Size	1000	1000	1000		1000		
Racked Non-Sterile	Cat. No.				LP300NR			
	Pack Size				10 x 96			
Racked Sterile	Cat. No.					LP010NFRS	LW1065	
	Pack Size					10 x 96	10 x 96	

1. Also labelled as Jencons Sealpette and as Genex.





Tip Description and Volume Range μ l		Non-Filter					
		0.1-10 μ l Micro Ultrafine	1-200 μ l 'Everyday' Bevel	1-200 μ l Bevel	1-200 μ l Reference Bevel	1-200 μ l Bevel	
Coding and Certification (see page 35)		D,E,G,M,R		D,E,M,R	D,E,G,M,R	Ds,E,G	
Pipette Make	Model	Pipette Volume Range μ l					
alpha+	Variable Volume	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	
	Fixed Volume	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	
	Multi Channel	0.5-10		5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300	
Sartorius (Biohit)	Picus®/Nt Single Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300		
	Picus®/Nt Multi Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300		
	eLINE®	0.2-10	5-120	5-120	5-120		
	Tacta/mLNE/Proline+	0.5-10	20-200	20-200	20-200	2-20, 10-100, 20-200 (5-100 M/C)	
	Proline® ¹		2-200	2-200	2-20	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	
Eppendorf®	Electronic	0.5-10	5-100, 20-200	5-100, 20-200	5-100, 20-200		
	Reference	0.1-2.5, 0.5-10	2-200	2-200	2-200	2-20, 10-100, 50-200	
	Research Pro	0.5-10	5-100	5-100	5-100		
	Research	0.1-2.5, 0.5-10	2-200	2-200	2-200		
	Research Plus	0.5-10	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200 (M/C 10-100)	
Gilson	Pipetman	P2, 10	P20, 100, 200	P20, 100, 200	P20, 100, 200		
	Pipetman Ultra	U2, 10	U20, 100, 200	U20, 100, 200	U20, 100, 200		
	Pipetman Classic, G, L	0.2-2, 1-10	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-20, 20-100, 50-200	
Rainin®	EDP3		2-200	2-200	2-200		
	EDP1		2-200	2-200	2-200		
	Pipet Lite SL	0.1-2, 0.5-10	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200	
	Classic						
Thermo Electron Finnpiptette™	Digital	0.2-10, 0.5-10	2-200	2-200	2-200		
	Focus	0.3-10	1-100	1-100	1-100		
	Biocontrol	0.5-10	5-200	5-200	5-200		
	Novus	1-10	1-100	1-100	1-100		
	Finnpiptette 4500					0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	
Tip Coding and Certification Key available - see page 35							
<div><div>samples available</div><div>121°C autoclavable</div></div> <div><div>Fastrak® tip refill available – see pages 38-39</div><div>All tips illustrated are actual size unless otherwise stated</div></div>		<div>Filter Tips available</div> <div>Fastrak® available</div>		<div>Filter Tips available</div> <div>Fastrak® available</div>	<div>Filter Tips available</div> <div>Fastrak® available</div>		
Loose Non-Sterile		Cat. No.	LW1154	ED0200	LW6361	LW6391	LP200BVY
		Pack Size	1000	1000	1000	1000	1000
Racked Non-Sterile		Cat. No.	LW1126		LW6360		LP200BVRY
		Pack Size	12 x 96		10 x 96		10 x 96
Racked Sterile		Cat. No.	LW1136		LW6365S	LW6393S	LP200BVRYS
		Pack Size	12 x 96		10 x 96	10 x 96	10 x 96

1. Also labelled as Jencons Sealpette and as Genex.

Liquid Handling - Pipette Tips





Tip Description and Volume Range μ l		100-1000 μ l 'Everyday' Ultrafine	100-1000 μ l	100-1000 μ l Ultrafine	100-1000 μ l Reference Ultrafine
Coding and Certification (see page 35)			E,G	D,E,M,R	D,E,M,R
Pipette Make	Model	Pipette Volume Range μ l			
alpha+	Variable Volume	100-1000	100-1000	100-1000	100-1000
	Fixed Volume	250, 500, 1000	250, 500, 1000	250, 500, 1000	250, 500, 1000
	Multi Channel			100-1000	100-1000
Sartorius (Biohit)	Picus®/Picus®Nxt Single Channel	50-1000		50-1000	50-1000
	Picus®/Picus®Nxt Multi Channel				
	eLINE®	50-1000		50-1000	50-1000
	Tacta/mLINE®/Proline Plus®	100-1000	100-1000	100-1000	100-1000
	Proline® ¹		100-1000		
Eppendorf®	Electronic				
	Reference	100-1000		100-1000	100-1000
	Research Pro	50-1000		50-1000	50-1000
	Research	100-1000		100-1000	100-1000
	Research Plus	M/C 30-300	100-1000	100-1000	100-1000
Gilson	Pipetman	P1000		P1000	P1000
	Pipetman Ultra	U1000		U1000	U1000
	Pipetman Classic, G,L	20-1000	200-1000	20-1000	20-1000
Rainin®	EDP3	100-1000		100-1000	100-1000
	EDP1	100-1000		100-1000	100-1000
	Pipet Lite SL	100-1000	100-1000	100-1000	100-1000
	Classic				
Thermo Electron Finnpiptette™	Digital				
	Focus	100-1000		100-1000	100-1000
	Biocontrol				
	Novus	100-1000		100-1000	100-1000
	Finnpiptette 4500		100-1000		
Tip Coding and Certification Key available - see page 35        <i>All tips illustrated are actual size unless otherwise stated</i>					Filter Tips available
Loose Non-Sterile	Cat. No.	ED1000	LP1000B	LW6471	LW6481
	Pack Size	1000	1000	1000	1000
Racked Non-Sterile	Cat. No.			LW6470	
	Pack Size			6 x 96	
Racked Sterile	Cat. No.			LW6475S	
	Pack Size			6 x 96	

1. Also labelled as Jencons Sealpette and as Genex.

1000-5000µl Finnpipette	1000-5000µl Gilson Reference	1000-5000µl Eppendorf Sartorius	1000-10,000µl Universal Reference	1000-10,000µl Gilson Reference	Tip Description and Volume Range µl	
M,R	D,E,G,R	D,E,G,R	D,E,G,R	Ds,E	Coding and Certification (see page 35)	
Pipette Volume Range µl					Model	Pipette Make
		500-5000		1000-10,000	Variable Volume	alpha+
		2000, 5000		10,000	Fixed Volume	
					Multi Channel	
		100-5000			Picus®/Nxt Single Channel	Sartorius (Biohit)
					Picus®/Nxt Multi Channel	
		100-5000			eLINE®	
		500-5000	1000-10,000		Tacta/mLINE®/Proline+	
		1000-5000			Proline® ¹	
					Electronic	Eppendorf®
					Reference	
		100-5000	1000-10,000		Research Pro	
		500-5000			Research	
					Research Plus	Gilson
	P5000		P10ml	P10ml	Pipetman	
	U5000				Pipetman Ultra	
				Pipetman Classic,G,L	Rainin®	
				EDP3		
				EDP1		
				Pipet Lite SL		
				Classic	Thermo Electron Finnpipette™	
				Digital		
				Focus		
				Biocontrol		
				Novus	Finnpipette 4500	
				Finnpipette 4500		
					Tip Fit We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice. Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.	
					All tips illustrated are actual size unless otherwise stated	
LW1062	LW1127	LW7829	LW7833	LP10000B	Cat. No.	 Loose Non-Sterile
250	250	250	200	200	Pack Size	
	LW1129 / LW1122				Cat. No.	 Racked Non-Sterile
	2 x 50 / 10 x 50				Pack Size	
	LW1128	LW7828	LW7835		Cat. No.	 Racked Sterile
	2 x 50	2 x 50	2 x 25		Pack Size	



Liquid Handling - Pipette Tips

1000-5000µl Aerogard® Gilson Reference	1000-5000µl Aerogard® Sartorius/ Eppendorf Ref.	1000-10,000µl Aerogard® Universal Reference	Tip Description and Volume Range µl	
D,E,G,R	D,E,G,R	D,E,G,R	Coding and Certification (see page 35)	
Pipette Volume Range µl			Model	Pipette Make
	500-5000		Variable Volume	alpha+
	2000, 5000		Fixed Volume	
			Multi Channel	
	100-5000	500-10,000	Picus®/Picus®Nt Single Channel	Sartorius (Biohit)
			Picus®/Picus®Nt Multi Channel	
	100-5000		eLINE®	
	500-5000	1000-10,000	Tacta/mLINE®/Proline Plus®	
	1000-5000		Proline®1	
			Electronic	Eppendorf®
			Reference	
	100-5000	1000-10,000	Research Pro	
	500-5000		Research	
			Research Plus	
P5000		P10ml	Pipetman	Gilson
U5000		U10ml	Pipetman Ultra	
			Pipetman Classic,G,L	
			EDP3	Rainin®
			EDP1	
			Pipet Lite SL	
			Classic	
			Digital	Thermo Electron Finnpipette™
			Focus	
			Biocontrol	
			Novus	
			Finnpipette 4500	
			Tip Fit M/C = Multichannel We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to ask for samples and check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please request samples or contact us for advice. Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.	
LW1124	LW7832	LW7836	Cat. No.	 Racked Sterile
2 x 50	2 x 50	2 x 25	Pack Size	

All tips illustrated are actual size apart from LW7836 which is 80% actual size

Keeping **You** Up to Date

Alpha Laboratories is constantly sourcing innovative new laboratory products to support your work and help improve healthcare practices.

We aim to keep you updated with all the latest developments through regular communications.
















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Liquid Handling - Pipette Tips

Tip Description and Volume Range μ l		Cellsaver Tips			Gel Loading Tips			
		100-1000 μ l Aerogard® Cell Saver	1-200 μ l Cell Saver	101-1000 μ l Cell Saver	0.1-10 μ l Gel Tip Round*	10 μ l Gel Tip Flat 0.17mm	10 μ l Gel Tip Flat 0.37mm	10 μ l Gel Tip Round 0.57mm
Coding and Certification (see page 35)		D,E,M,R	E,G,R	E,G,R		D,E,G,R	D,E,G,R	D,E,G,R
Pipette Make	Model	Pipette Volume Range μ l						
alpha+	Variable Volume	100-1000	2-20, 5-50, 10-100, 20-200	100-1000	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10
	Fixed Volume	250, 500, 1000	20, 25, 40, 50, 100, 200	250, 500, 1000	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10
	Multi Channel	100-1000	5-50, 10-100, 20-200					
Sartorius (Biohit)	Picus®/Picus®NXT Single Channel							
	Picus®/Picus®NXT Multi Channel							
	eLINE®	50-1000						
	Tacta		2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10			
	mLINE®/Proline Plus®	100-1000	2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10			
	Proline® ¹	200-1000	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	100-1000		0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10
Eppendorf®	Electronic							
	Reference	100-1000	2-20, 10-100, 50-200		0.1-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10
	Research Pro	50-1000						
	Research	100-1000			0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10
	Research Plus	100-1000	2-20, 10-100, 20-200 (M/C 10-100)	100-1000				
Gilson	Pipetman	200-1000			P2, 10	P2, 10	P2, 10	P2, 10
	Pipetman Ultra	200-1000			U2, 10			
	Pipetman Classic,G,L	200-1000	2-20, 20-100, 50-200	200-1000				
Rainin®	EDP3	100-1000						
	EDP1	100-1000						
	Pipet Lite SL	100-1000	2-20, 10-100, 20-200	100-1000		0.2-2, 0.5-10	0.2-2, 0.5-10	0.2-2, 0.5-10
	Classic				1-10			
Thermo Electron Finnpipette™	Digital	100-1000						
	Focus	200-1000						
	Biocontrol	100-1000						
	Novus	100-1000						
	Finnpipette 4500		0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	100-1000				
Tip Coding and Certification Key available - see page 35   		      						
Loose Non-Sterile		Cat. No.		LP200W	LP1000W	LW1103		
		Pack Size		1000	1000	1000		
Racked Non-Sterile		Cat. No.					GL01017NTR	GL01037NTR
		Pack Size					2 x 96	2 x 96
Racked Sterile		Cat. No.	ZP1250CS				GL01017NTRS	GL01037NTRS
		Pack Size	6 x 96				2 x 96	2 x 96

Gel Cutting Tips

A great new tool for Gene Cloning

- Gel cutting tips from Alpha Laboratories mean no more scalpels required. These tips offer a unique and convenient way to excise bands from gels. Gel cutting tips allow complete single handed and contamination free removal of the gel band of interest.

'R' = Racked Tips

Robotic Tips

Tips for automated workstations are subject to stricter tolerances than standard pipette tips. Alpha robotic tips are engineered to the exact specification of the instruments for which they are designed.

They are manufactured from medical grade, virgin polypropylene and undergo rigorous QC testing to assure you of the highest levels of purity and performance.

Our extensive range covers numerous instruments and tip formats. Some products are ex-stock while others are custom-made.

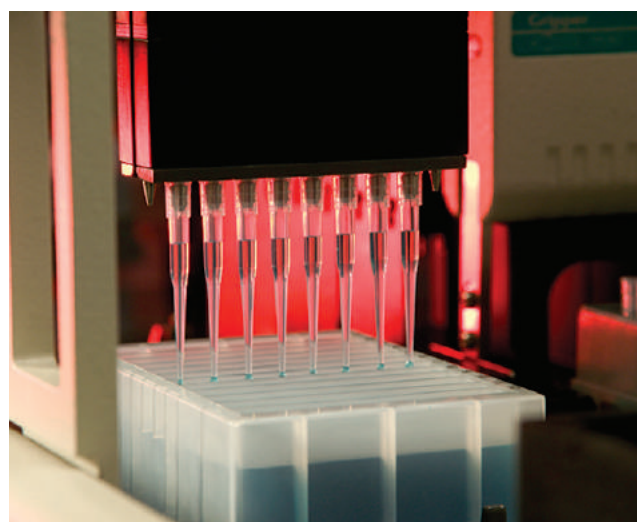
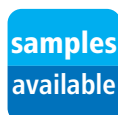
To ensure you make the right choice for your application and that we provide efficient supply, please contact us for samples and to discuss your requirements.

Robotic Tips for Beckman Biomek®/Multimek™ Workstations




This range has been developed for the Biomek® and Multimek™ workstations fitted with the AP96 liquid handling head. Superior polished moulds result in flash-free tips with minimal liquid retention. They are lot tested on the original manufacturer's instruments and are designed to require no hardware or software adjustments prior to use.

Tips for each robot are available in 3 different volumes in sterile or non-sterile racks. In most cases, we also offer a filter version for added sample and instrument protection.

All tips are certified free of DNase, RNase, human DNA and PCR inhibitors. Sterile tips are also certified free of pyrogens.



For Biomek® FX, NX, 3000 and Multimek 96 Workstations

Tip Volume		Software Designation		Racked Non-Sterile
20µl		AP96 Head 10	Cat. No.	LW1501R
			Pack Size	10 x 96
50µl		AP96 Head 10	Cat. No.	LW1548R
			Pack Size	10 x 96
250µl		AP96 Head 10	Cat. No.	LW1504R
			Pack Size	10 x 96

All tips illustrated are actual size unless otherwise stated

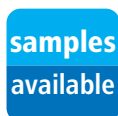
Robotic Tips for Tecan/Corbett Qiagen/Perkin Elmer Workstations

These tips easily dispense small volumes with very high precision. Both conductive (black) and non-conductive (natural) options are available.

The conductive tips are manufactured using a composite of conductive carbon black and polypropylene which carries liquid-level sensing properties.

Minimal immersion is guaranteed as the tip filling height is recognised by the system.

This ensures greater accuracy during aspirating and dispensing steps.









STERILE



NON-STERILE

For Tecan Genesis®, Freedom EVO®, MiniPrep®, Cavo® workstations and PerkinElmer/Packard MultiPROBE® II HT, MultiPROBE® II HT EX workstation

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
10µl		Cat. No.	RT1577R	
		Pack Size	10 x 96	
50µl		Cat. No.	RT1582R	RT1585RS-BU
		Pack Size	10 x 96	12 x 2 x 96
200µl		Cat. No.	RT1586R	
		Pack Size	10 x 96	
200µl		Cat. No.	RT1589R	RT1592RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1000µl		Cat. No.	RT1593R	
		Pack Size	10 x 96	
1000µl		Cat. No.	RT1596R	RT1599RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated

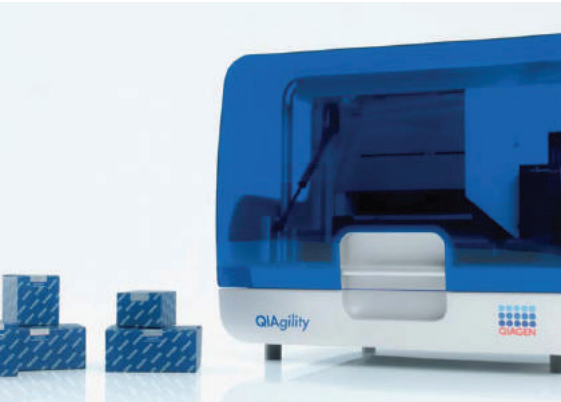
Robotic Tips for Qiagen Workstations

These tips are designed for the following workstations:

Qiagen Biorobots: Model 3000 • Model 8000
Model 9600 • Model 9604 • Rosys • Colibri

QIAgility (formerly Corbett CAS-1200)

We offer a full range of conductive tips including non-sterile, sterile and filtered. Non-conductive tips other than the 1100µl filter tip are available on request.



samples
available



STERILE

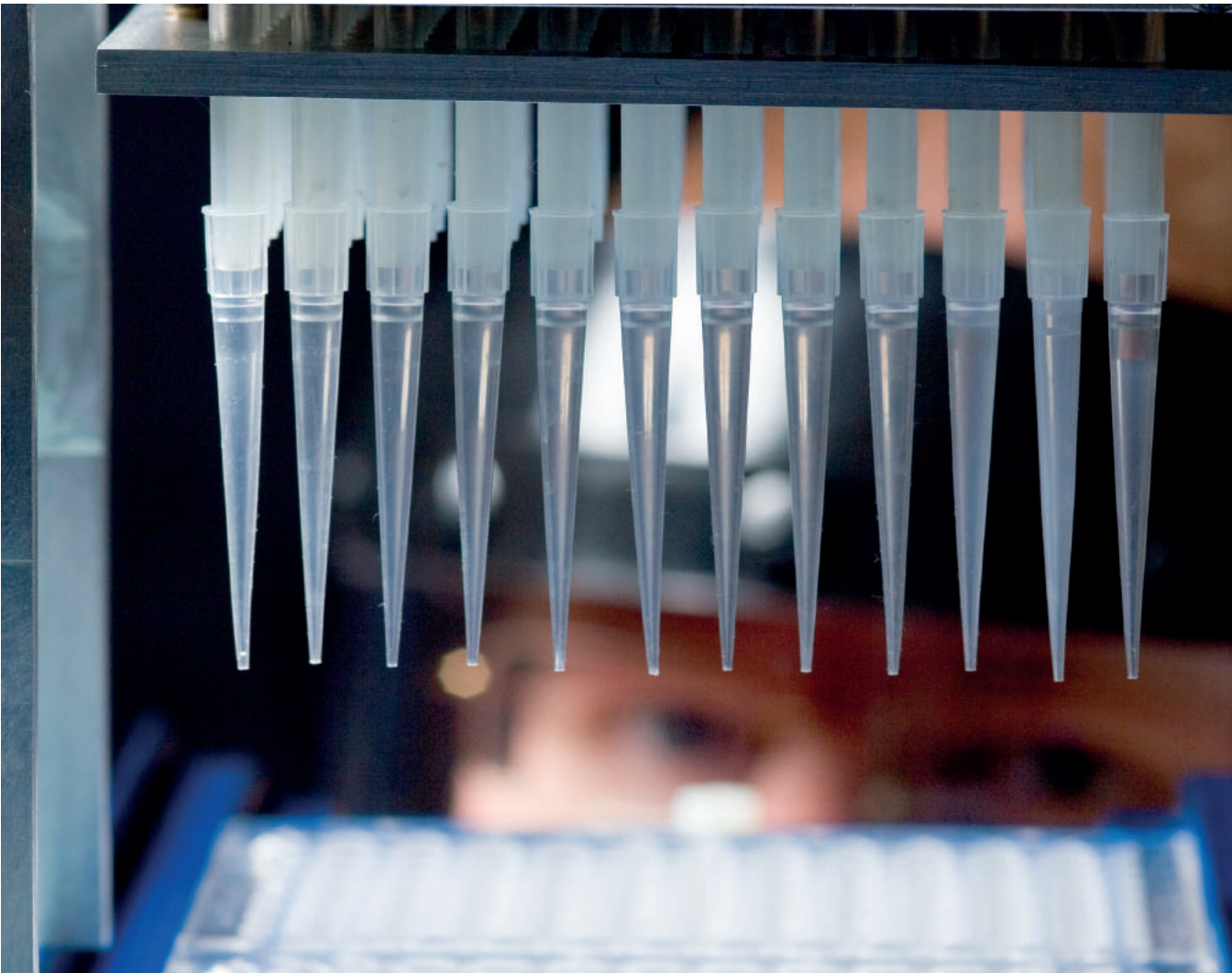


NON-STERILE

For Qiagen Biorobots 3000, 8000, 9600, 9604, Rosys and Colibri Workstations

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
300µl		Cat. No.	RT1552R	RT1555RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1100µl		Cat. No.	RT1553R	RT1557RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated



Robotic Tips for Hamilton Microlab Star Line Workstations

These conductive tips are produced under clean room conditions and are tested free from DNase, RNase, ATP and Pyrogens. Each lot is tested according to a rigorous quality management system to ensure reproducible results in your application.







STERILE



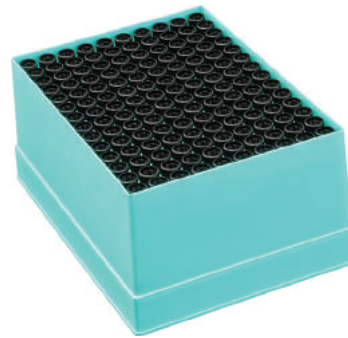
NON-STERILE

For Hamilton Microlab Star Line workstations

Tip Volume			Blister Non-Sterile	Blister Filter Non-sterile	Stack Rack
10µl		Cat. No.	RT15100	RT15101	
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	
50µl		Cat. No.	RT15105	RT15106	RT15109
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2 x (4 x 5 x 96)
300µl		Cat. No.	RT15110	RT15111	RT15114
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2 x (4 x 5 x 96)
1000µl		Cat. No.	RT15115	RT15116	
		Pack Size	10 x (5 x 96)	10 x (5 x 96)	


Robotic Tips for Beckman Coulter and Olympus Workstations

Modern healthcare institutes require the highest standards from their diagnostic partners including those specialising in clinical chemistry, immunochemistry or blood grouping applications. These tips have been developed for clinical diagnostic instruments where a smooth production flow and high quality results are essential to patient care.



NON-STERILE

For Beckman Coulter Automate 1250/2550 and Olympus OLA2500 workstations

Tip Volume			Racked Non-Sterile
1200µl		Cat. No.	RT15000
		Pack Size	8 x 140

All tips illustrated are actual size unless otherwise stated

Agony in the Hood?

Get Relief with the Unique Drummond Pipet-Aid® XL

If you are pipetting large volumes of liquid, over prolonged periods of time, in a fume cupboard or flow hood, you need to use the right instrument to ensure your safety and comfort.

Pipetting controllers, in combination with serological pipettes, should be the simplest choice. However, trying to get the long serological pipette into a bottle or beaker can sometimes be quite a challenge when it needs to be done under the sash of the hood.

Over time, the strain to your muscles, ligaments and joints can lead to stress related disorders such as Repetitive Strain Injury (RSI).

Try the unique Drummond Pipet-Aid® XL Pipetting Controller for a more comfortable experience

- The longer, lightweight handle allows a lower arm position minimising head, neck and upper arm fatigue in fume cupboards
- The adjustable sliding hand rest gives maximum comfort and stability, especially when working under a flow hood

See page 19



DRUMMOND
SCIENTIFIC COMPANY

Quality Consumables for Sample Collection, Transport, Storage and Processing

The quality of analytical results is often dependent upon how samples have been collected, transported, stored and processed, prior to being tested.

Using high quality consumables that maintain sample integrity, ensure no assay interference, prevent leakage and comply with transport regulations is essential.

Alongside our established range including a wide variety of sample tubes and containers we now have many products to support your additional sample handling needs.

What's New?

- ProtectR® CO₂ Resistant Tubes
- EveryDay Specimen Containers
- 5 and 10ml Transport Tubes
- Micro Slide Containers

Contents

Page/s

Microtubes	62-66
5ml, 15ml and 50ml Centrifuge Tubes	67-70
ProtectR® CO ₂ Resistant Tubes	72
SampleTite™ Prime Containers	73
Cryogenic Vials	74
Round Bottom Tubes and Caps	76
Sample Containers	78
Universal Containers	79
Transport Tubes	79
Bijou Containers and Transport Tubes	80
Microslide Boxes	81
Culture Tools	81
Petri Dishes	82
Spatulas	82
Weighing Dishes	83

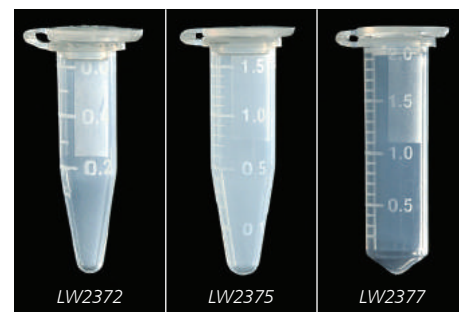


Tubes for Sample Processing and Storage

Flip-Cap Microcentrifuge Tubes

APEX® 'Tough' Microcentrifuge Tubes

APEX® 'Tough' Microcentrifuge Tubes are great all-rounders. These polypropylene tubes have a centrifuge rating of 20,000g and temperature range of -90 to 121°C making them suitable for a wide range of techniques. The secure closure makes these tubes ideal for boiling applications.



'Tough' Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2372*	0.5ml Microcentrifuge Tube Natural	1000
LW2375*	1.5ml Microcentrifuge Tube Natural	2 x 500
LW2377	2.0ml Microcentrifuge Tube Natural	2 x 500
LW2377AS	2.0ml Microcentrifuge Tube Assorted	2 x 500

*Other colours available. Please see our website.



LW2375AS (representative image)

APEX® 'Soft-Release' Microcentrifuge Tubes

Manufactured from UltraClear® copolymer polypropylene, the APEX® 'Soft-Release' range of tubes is designed with a wide-opening flange for easy, one-handed opening. The reduced closure resistance of these tubes makes processing large batches of samples that much easier.

Rated to 20,000g.

Not suitable for boiling applications.



'Soft-Release' Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2455*	1.5ml 'Soft-Release' Microcentrifuge Tube Natural	500

*Other colours available. Please see our website.



LW2455AS (representative image)

APEX® 'True-Lock' Microcentrifuge Tubes

APEX® 'True-Lock' Microcentrifuge Tubes have a secure locking mechanism to provide extra security for your samples. The innovative CLIKLOK™ design includes a clasp, which can be bent upward to secure the cap and prevents accidental opening of these tubes. Certified RNase, DNase and DNA free and rated to 20,000g APEX® 'True-Lock' tubes are suitable for a wide range of applications.

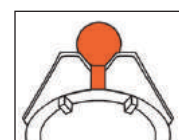


'True-Lock' Microcentrifuge Tube

Catalogue Number	Description	Pack Size
LW2486	1.5ml 'True-Lock' Microcentrifuge Tube	500



LW2486



Locking mechanism preventing accidental opening of lid



Flip-Cap Microcentrifuge Tubes

APEX® 'NoStick'™ Microcentrifuge Tubes

A perfect alternative to home-made siliconised tubes and ideal for RNA and DNA work. The proprietary formulation of homopolymer polypropylene creates a 'No Stick' tube with extra-low adhesion, eliminating the need to coat the tube with any other agent. It is therefore completely non-reactive to your samples. Rated to over 20,000g and certified free from RNase, DNase and DNA.



'NoStick'™ Hydrophobic Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2400	0.5ml 'NoStick' Microcentrifuge Tube Natural	500
LW2410*	1.5ml 'NoStick' Microcentrifuge Tube Natural	250
LW2420	2.0ml 'NoStick' Microcentrifuge Tube Natural	250

*Assorted packs available, add suffix: AS=assorted.

APEX® 'Mini' Microcentrifuge Tubes

The APEX® 'Mini' Microcentrifuge tubes are designed for applications using smaller volumes and certified RNase and DNase free. The 0.25ml tube is manufactured from autoclavable polypropylene and has a centrifuge rating of 30,000g. The 0.4ml tube is made with low density polyethylene which is soft and can be easily cut to facilitate pellet removal.



LW2078



LW2070

'Mini' Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
LW2078	0.25ml Microcentrifuge Tube Natural	1000
LW2070	0.40ml Microcentrifuge Tube Natural	1000

Which range is best for me?

Feature	Tough	Soft-Release	True-Lock	NoStick	Mini 0.25ml	Mini 0.40ml
Volume	0.5, 1.5, 2.0ml	1.5ml	1.5ml	0.5, 1.5, 2.0ml	0.25ml	0.40ml
Spin Rating	20,000g	20,000g	20,000g	20,000g	30,000g	25,000g
Colours	Yes	Yes	No	Yes	No	No
Amber	Yes	Yes	No	No	No	No
DNase, RNase & DNA free	Yes	Yes	Yes	Yes	No*	No*
Autoclavable	Yes	Yes	Yes	Yes	Yes	No
Material	PP	PP	PP	PP	PP	LDPE

*DNase and RNase free only

PP = Polypropylene LDPE = Low Density Polyethylene

Screw-Cap Microcentrifuge Tubes

APEX® Screw-Cap Microcentrifuge Tubes



CP5910 CP5911 CP5912 CP5913 CP5914 CP5915

APEX® Screw-Cap Microcentrifuge Tubes are ideal for sample collection, processing and storage. Manufactured from virgin polypropylene, this range of tubes has low-binding properties and is certified free from RNase, DNase, human DNA and PCR inhibitors. Both cap and tube are produced from the same material and share expansion coefficients to provide uniform rates of expansion and contraction in response to temperature change, offering a high quality leak-resistant design.



LAL testing is only performed on sterile caps and tubes, therefore only sterile product is certified pyrogen free.

APEX® screw-caps are available in a multitude of colours for convenient colour coding of samples or reagents. APEX® SafeGrip caps are also available for use with the APEX® Screw-Cap Microcentrifuge Tube range.

Caps featured on this page do not fit APEX® White Label tubes.

Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
Screw-Cap Microcentrifuge Tubes, non-sterile, without cap		
CP5910	0.5ml Conical	500
CP5911	1.5ml Conical	500
CP5912	2.0ml Conical	500
CP5913*	0.5ml Free-Standing	500
CP5914*	1.5ml Free-Standing	500
CP5915*	2.0ml Free-Standing	500
Screw-Cap Microcentrifuge Tubes, sterile, including fitted tethered cap		
CP5921	1.5ml Conical	500
CP5922	2.0ml Conical	500
CP5923	0.5ml Free-Standing	500
CP5924	1.5ml Free-Standing	500
CP5925	2.0ml Free-Standing	500
Screw-Cap Microcentrifuge Tubes, sterile, including fitted standard cap		
CP5930	0.5ml Conical	500
CP5931	1.5ml Conical	500
CP5932	2.0ml Conical	500
CP5933	0.5ml Free-Standing	500
CP5934	1.5ml Free-Standing	500
CP5935	2.0ml Free-Standing	500
Screw-Caps only, non-sterile		
CP5940N*	Screw-Cap, Natural	500
Tethered Screw-Caps only, non-sterile		
CP5950AS*	Screw-Cap, Assorted	500

* Other colours available. Please see our website.



CP5940AS

(assorted colours - please see our website)

APEX® 'SafeGrip' Screw Caps



CP5960AS (representative image)

APEX® 'SafeGrip' screw-caps are specially moulded from tough polypropylene to provide a superior grip – ideal when you need to open tubes while wearing gloves!

Unlike traditional screw-caps with a fitted O-ring, 'SafeGrip' screw-caps have an integral seal moulded into the cap. The inert thermoplastic elastomer seal used in this unique design eliminates the problem of loose O-rings which can detach from the cap. Available in natural, white or various colours, 'SafeGrip' screw-caps are certified free from RNase, DNase, DNA and PCR inhibitors.

'SafeGrip' Screw Caps

Catalogue Number	Description	Pack Size
CP5960N*	Screw-Cap, Natural	500

* Other colours available. Please see our website.

Screw-Cap Microcentrifuge Tubes

APEX® 'White Label' Screw-Cap Microcentrifuge Tubes



CP5316WL

CP5328WL

CP5314WL

CP5318WL

CP5321WL

The APEX® 'White Label' Microcentrifuge Tubes offer the advantage of a distinct, white labelling area. As with the rest of the APEX® range, the cap and tube are manufactured from the same materials, meaning both the cap and tube will expand and contract at the same rate in response to temperature changes (e.g. during thawing or freezing), minimising the possibility of leakage.



A range of coloured caps or natural caps that can be used with cap inserts enables effective colour coding for your samples.

CP5326
(representative image)

'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
'White Label' Microcentrifuge Tubes, Non-sterile, Without Cap		
CP5316WL	0.5ml Free-standing	1000
CP5314WL	1.5ml Conical	1000
CP5321WL	2.0ml Conical	1000
CP5328WL	1.5ml Free-standing	1000
CP5318WL	2.0ml Free-standing	1000
'White Label' Microcentrifuge Tubes, Sterile, including Insert Compatible Cap		
CP5317WL	0.5ml Free-Standing	500
CP5315WL	1.5ml Conical	500
CP5322WL	2.0ml Conical	500
CP5329WL	1.5ml Free-Standing	500
CP5320WL	2.0ml Free-Standing	500
'White Label' Microcentrifuge Tubes, Sterile, Tethered Cap		
CP5335WL	1.5ml Conical Tethered Cap	500
CP5339WL	1.5ml Free-Standing Tethered Cap	500

Caps for 'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
CP5326N	Flat-Cap Natural (will not accept insert)*	1000
CP5325N	Screw-Cap Natural, Insert Compatible*	1000
CP3346R	Coloured Cap Insert - Red*	500

*Other colours available. Please see our website.



CP5325N

CP3346
(representative image)

Which range is best for me?

APEX® 'White Label' tubes are not compatible with APEX® 'SafeGrip' caps

Feature	APEX® Range	APEX® 'White Label' Range
Volume Available	0.5, 1.5, 2.0ml	0.5, 1.5, 2.0ml
Spin Rating	20,000g	17,000g
Base Types	Conical and Free-Standing	Conical and Free-Standing
Colour Caps	Yes	Yes
Coloured Cap Inserts	No	Yes
Temperature Range	-90C to +121C	-90C to +121C
O-Ring Material	Ethylene / Polypropylene	Silicone
Amber Available	Yes (Please enquire)	No
Cap and Tube made of same material	Yes	Yes
Tethered Caps Available	Yes	No
DNase, RNase & DNA free	Yes	Yes
Label	No	Yes
95kPa Compliant	No	Yes

Screw-Cap Microcentrifuge Tubes

APEX® 'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Ideal for all applications requiring a tamper-evident seal, the Alpha Laboratories range of APEX® 'Tamper-Evident' Screw Cap Microcentrifuge Tubes also has a multitude of benefits when used in your laboratory. They are ideal for freezer storage, boiling applications, centrifugation, etc. and will fit most standard microcentrifuge rotors.



95kPa

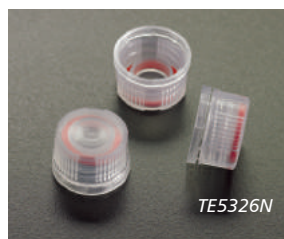
When the cap is screwed onto the tube, the tamper-evident sealing ring is automatically placed. When unscrewed, the ring is detached from the cap and remains in its position, showing clearly that the tube was opened.

Both the caps and the tubes are manufactured from the same, durable polypropylene so will expand and contract at the same rate, offering a reliable seal.

Additional 'Tamper-Evident' caps are also available.

Key Features:

- Rated to 17,000g
- Temperature Range: -196C to +121C
- Silicone O-ring



'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
'Tamper-Evident' Screw-Cap Microcentrifuge Tubes and caps, non-sterile		
TE5336	0.5ml Free-Standing Graduated	1000
TE5334	1.5ml Conical Graduated	1000
TE5341	2.0ml Conical Graduated	1000
TE5348	1.5ml Free-Standing Graduated	1000
TE5338	2.0ml Free-Standing Graduated	1000
'Tamper-Evident' Screw-Cap Microcentrifuge Tubes with cap, loosely assembled, sterile		
TE5317	0.5ml Free-Standing Non-Graduated	500
TE5322	2.0ml Conical Non-Graduated	500
TE5329	1.5ml Free-Standing Non-Graduated	500
TE5329WL	1.5ml Free-Standing Graduated	500
TE5320	2.0ml Free-Standing Non-Graduated	500

'Tamper-Evident' Caps

Catalogue Number	Description	Pack Size
TE5326N	Tamper-Evident Cap	1000

5ml, 15ml and 50ml Centrifuge Tubes

There are three ranges of centrifuge tubes that are available from Alpha Laboratories. Our 5ml range is ideal for those in-between sample volumes where a 2ml microcentrifuge tube is too small but a 15ml tube is too large. SuperClear™ 15 and 50ml tubes are designed for more demanding molecular biology applications whilst the Apex 'Essential' range offers excellent value for everyday centrifugation and storage.

5ml Centrifuge Tubes

When your sample size is somewhere between 2 and 5ml, the 5ml Conical Base Midi Centrifuge Tubes are the perfect intermediate volume solution. Featuring an easy-to-open, flat, frosted cap and a large frosted writing area, they ensure easy sample labelling and identification.

Midi Centrifuge tubes are 56.6mm in height and graduated at every 0.25ml for more accurate volume estimation. The tube diameter is 19mm, the same as standard 15ml centrifuge tubes, making them compatible with many standard centrifuge rotors. The tubes can be centrifuged to 21000 rcf.

Made from high grade polypropylene, they have undergone rigorous functional testing, ensuring their suitability for a wide variety of applications.

- Supplied non-sterile or sterile (e-beam irradiation)
- Can be autoclaved at 121C and 15psi for up to 20 minutes
- All tubes are certified RNase, DNase, DNA, Pyrogen and PCR Inhibitor free
- The shorter height of the tube provides increased protection against contamination as long pipette barrels do not need to be inserted into the tube when aspirating or dispensing samples
- Three colour options are available – natural, assorted colours and also amber tubes for use with light-sensitive samples
- The Midi Centrifuge Tubes are supplied in handy, resealable packs



5ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
FT0050NT	Centrifuge Tube 5ml Natural Non-sterile	21,000	2x100
FT0050NTS	Centrifuge Tube 5ml Natural Sterile	21,000	4x50
FT0050AS	Centrifuge Tube 5ml Assorted Colours Non-sterile	21,000	4x50
FT0050AMS	Centrifuge Tube 5ml Amber Sterile	21,000	4x50

SuperClear™ Centrifuge Tubes

SuperClear™ tubes are designed for more demanding molecular biology applications whilst the APEX® 'Essential' range offers excellent value for everyday centrifugation and storage.



SuperClear™ tubes are made from a unique non-cytotoxic medical grade resin that is clear and very durable, making it possible to spin these tubes at 20,000g for 50ml tubes and 17,000g for 15ml tubes.

They include large, white, solvent-resistant labelling areas and black, easy to read graduations.

The SuperClear tubes have an easy to label flat cap design that includes an integral sealing ring. The caps allow you to seal the tubes to an evaporation seal with a $\frac{3}{4}$ turn for one-handed operation. A final additional $\frac{1}{4}$ turn will seal them liquid tight.

SuperClear™ tubes are available in sterile fibre racks, and sterile or non-sterile bags.

All our sterile products use medical grade packaging and are radiation sterilised following a validated ISO 11137 method.

SuperClear centrifuge tubes also excel in their environmental performance. Made in waste-free moulds and printed without V.O.C. (volatile organic compound) pollutants these tubes are environmentally responsible.

- Certified DNA, DNase, RNase, endotoxin and pyrogen free
- Certified low in trace metals
- Can be stored at temperatures between -80C & +122C

SuperClear™ 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1110	50ml SuperClear Centrifuge Tube, Loose, Non Sterile	20,000	2 x 50
CT1120	50ml SuperClear Centrifuge Tube, Loose, Sterile	20,000	2 x 50
CT1140	50ml SuperClear Centrifuge Tube, Racked, Sterile	20,000	4 x 25
CT3076	15ml SuperClear Centrifuge Tube, Loose, Non Sterile	17,000	2 x 50
CT3078	15ml SuperClear Centrifuge Tube, Loose, Sterile	17,000	2 x 50
CT3083	15ml SuperClear Centrifuge Tube, Racked, Sterile	17,000	2 x 50

APEX® 'Essential' 15ml and 50ml Centrifuge Tubes

APEX® 'Essential' 15ml and 50ml Centrifuge tubes are designed for all your routine centrifugation and storage needs. If you are looking for a dependable, high quality tube at a sensible price then our APEX® 'Essential' range is the perfect solution.

Equipped with a host of features for ease of use and peace of mind, these tubes are great performers.



The 50ml tube is available in a free-standing (skirted) format, which allows it to stand upright without the need for a rack. It is ideal for transporting samples since it is lab certified to the IATA 95kPa standard.

- Compatible with all popular centrifuges and storage racks
- Large white, solvent-resistant labelling area on tube
- Black, easy to read graduations that will not run or rub off
- Flat cap for easy top labelling
- Solvent-resistant, high clarity resin
- Sterile according to a validated and approved ISO method
- Freezable to -80C



'Essential' 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1155	15ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1150	50ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1170	50ml 'Essential' Centrifuge Tube, Skirted, Loose, Sterile	10,000	2 x 50

AHN myTube® 15ml and 50ml Centrifuge Tubes

The AHN myTube® range of 15ml and 50ml centrifuge tubes are ideal for sample storage and high-speed centrifugation purposes in the laboratory.

The diamond-finish production moulds provide a high-clarity, flawless internal surface that is super smooth for clean release of dispensed samples.

The leak-proof flat screw caps with large ridges provide optimal grip and enable convenient one-handed operation.

AHN myTube® centrifuge tubes feature graduation marks that are printed in bold easy-to-read black ink which is highly resistant to physical and chemical corrosion. The tubes also come with a large white writing area for convenient sample labelling.

The centrifuge tubes are lot by lot tested and certified Human DNA, DNase, RNase, Pyrogen, Endotoxin and Metal free. Where product is marked sterile, sterilisation is by gamma irradiation.

AHN myTube® centrifuge tubes are supplied in 4 gripseal bags of 25 tubes.



- Manufactured from high quality, FDA approved virgin polypropylene and are designed for both sample storage and high-speed centrifugation purposes in any laboratory
- The tubes can withstand a centrifugation force of up to 17,000g making them suitable for a wide range of research applications
- Both the caps and the centrifuge tubes can be autoclaved at 121C for 15 minutes.
- They are suitable for use within a temperature range of -80 to 121C

AHN myTube® 15ml and 50ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
3-256-25-8	15ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Sterile	20,000	4 x 25
3-254-25-8	15ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Non-Sterile	20,000	4 x 25
3-272-25-8	50ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Sterile	20,000	4 x 25
3-270-25-8	50ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Non-Sterile	20,000	4 x 25
3-281-25-8	50ml Centrifuge Tube with Flat Cap, Skirted Bottom, Graduated, Loose, Sterile	7,000	4 x 25
3-280-25-8	50ml Centrifuge Tube with Flat Cap, Skirted Bottom, Graduated, Loose, Non-Sterile	7,000	4 x 25



ProtectR® 15ml and 50ml CO₂ Resistant Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO₂ resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO₂, keeping the sample pH stable and preventing acidification.

IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.



Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)
- Patented, extra large smudge-resistance writing panel
- Easy-to-read graduations & reverse scale

ProtectR® 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

SampleTite™ Prime Containers

A Secure Solution for Sample Collection, Storage and Transportation

SampleTite™ Prime Specimen Containers have been designed for applications where strict adherence to regulatory requirements for the safe collection, storage and transportation of biological samples is essential.

The containers are manufactured from durable polypropylene and the various coloured caps are made from high density polyethylene (HDPE).

SampleTite™ Prime Specimen Containers are food contact approved and testing has been carried out for suitability with aggressive chemicals such as formaldehyde.

They are widely used in a range of applications including pathology, histology, water sampling and metals analysis.

- High clarity
- Easy opening and closure



Leak-proof, 95kPa Tested to IATA Standard for Compliant Sample Transport

A process validation has been carried out on these disposable plastic specimen containers to ensure the unique “double seal” closure technology remains leak-proof under a pressure differential of no less than 95 kPa (0.95bar, 14 psi) at both -40C and +55C, making them suitable as a primary container for air transport of UN3373 biological samples. Flexible Packaging Systems.

SampleTite™ Prime Containers		
Catalogue Number	Description	Pack Size
STC0120SJ	SampleTite Prime Specimen Container 120ml Clear Non-Sterile	500
STC0120CO	SampleTite Prime Specimen Cap 120ml Orange Non-Sterile	500
STC0120CP	SampleTite Prime Specimen Cap 120ml Purple Non-Sterile	500
STC0120CR	SampleTite Prime Specimen Cap 120ml Red Non-Sterile	500
STC0120CW	SampleTite Prime Specimen Cap 120ml White Non-Sterile	500
STC0120CY	SampleTite Prime Specimen Cap 120ml Yellow Non-Sterile	500



Cryogenic Vials

Designed for safe, ultra-low temperature storage, Alpha has three ranges of CE marked cryogenic storage vials.



All products in this range are certified free from RNase, DNase, pyrogens and DNA. Alpha Laboratories' cryogenic vials come in either free-standing or round-bottom base designs.

- **Strong vial and cap** – a special grade of polypropylene, chosen for its consistent strength, is used to make all our vials. As a result, both vial and cap can withstand the harsh -196C temperature of vapour phase liquid nitrogen.
Please note that they are not designed for use in the liquid phase.

- **Secure seal** – the cap and tube are made from the same material so with temperature change, they shrink and expand in unison. Tested leakproof to 95kPa.
- **Fast opening/closing** – 1¼ turns is all that is required to close the cap securely. This is important when large quantities of vials are being used because it saves time and means there is less chance of the cap not being closed securely.

- **Simple one-handed operation** – all free-standing vials, when used with a workstation, enable you to unscrew vials with one hand.

- **Sterile** – all vials are gamma irradiated to ensure absolute sterility.

sterile

- **Certified free from RNase, DNase, Pyrogens, human DNA and metals**



- **Clear graduations** – at 100µl intervals to facilitate reading of your sample volume.

- **Large white marking area** – for sample labelling and identification.

- **Free-standing and locking base** – stand the vials on the bench or use them one-handed in a workstation.

- **Supplied in tamper-evident, resealable bag** – clean and sterile.

- **Cap insert** – available in 11 different colours. Perfect for colour coding.

Not compatible with LW3439.

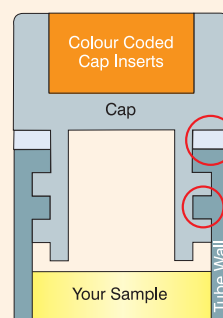


Coloured Cap Inserts

Catalogue Number	Description	Pack Size
LW3339B	Cryogenic Vial Cap Insert, Blue	500
LW3339G	Cryogenic Vial Cap Insert, Green	500
LW3339V	Cryogenic Vial Cap Insert, Violet	500
LW3339R	Cryogenic Vial Cap Insert, Red	500
LW3339W	Cryogenic Vial Cap Insert, White	500
LW3339Y	Cryogenic Vial Cap Insert, Yellow	500
LW3339O	Cryogenic Vial Cap Insert, Orange	500
LW3339P	Cryogenic Vial Cap Insert, Pink	500
LW3339GR	Cryogenic Vial Cap Insert, Grey	500
LW3339AS	Cryogenic Vial Cap Insert, Assorted	500

'The Classic' Range

– designed for basic security

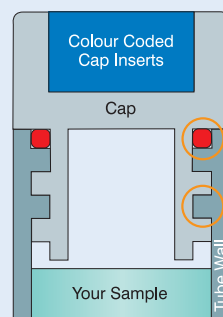


Silicone sealing washer compressed on three sides

Internal thread on tube holds the cap tightly in place

'Feel the Seal' Range

– ideal for storage of large batches

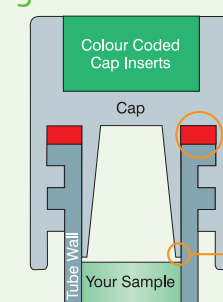


Silicone O-ring secures tightly against inner tube wall

Internal thread on tube holds the cap tightly in place

'Ultimate Security' Range

– dual washer and flange for the highest level of sample security



Silicone sealing washer compressed on all four of its sides

Internal flange secures the seal and reduces the risk of contaminating the cap

'High Capacity' Range

– ideal for larger samples



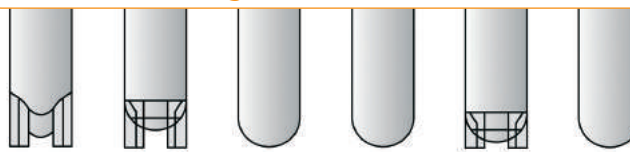
Internally Threaded – with Silicone Washer

Designed to improve safety compared with standard screw cap microcentrifuge tubes. 'The Classic' uses a square section washer that compresses tightly between the cap and top of the tube wall.

coloured cap inserts

95kPa

Free-standing or Round Bottom Bases



Catalogue Number	LW3332	LW3334	LW3335	LW3336	LW3337	LW3338
Working Volume (ml)	1.0	2.0	2.0	3.6	3.6	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 70	12.5 x 72	12.5 x 90
Free-Standing	●	●			●	
Round Bottom			●	●		●
Pack Size	100	100	100	100	100	100

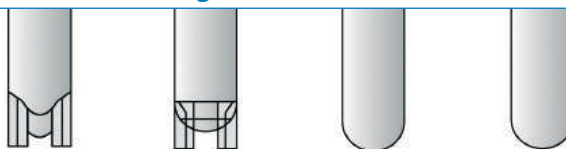
Internally Threaded – with Silicone O-Ring

It's true, you really can feel when the cap is securely closed. Ideal when storing important samples in large batches.

coloured cap inserts

95kPa

Free-standing or Round Bottom Bases



Catalogue Number	LW3532	LW3534	LW3535	LW3538
Working Volume (ml)	1.2	2.0	2.0	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 90
Free-Standing	●	●		
Round Bottom			●	●
Pack Size	100	100	100	100

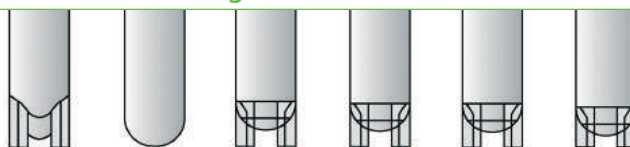
Externally Threaded – with Flange/Washer Combination

This unique combination of square section sealing washer and internal cap flange provides the highest level of security for your most precious samples.

coloured cap inserts

95kPa

Free-standing or Round Bottom Bases



Catalogue Number	LW3432	LW3433	LW3434	LW3436	LW3437	LW3438
Working Volume (ml)	1.0	1.8	1.8	3.0	3.8	4.5
Size (mm)	12.5 x 42	12.5 x 47	12.5 x 49	12.5 x 71	12.5 x 77	12.5 x 91
Free-Standing	●		●	●	●	●
Round Bottom		●				
Pack Size	100	100	100	100	100	100

Externally Threaded – High Capacity

Our jumbo, free-standing, externally threaded cryovials have a working volume of 9.5ml. They are gamma irradiated and certified free from RNase, DNase, Pyrogens and Human DNA. Featuring volume graduations and a large labelling area, these tubes offer a high level of security for your valuable samples.

95kPa

Free-standing Base



Catalogue Number	LW3439
Working Volume (ml)	9.5
Size (mm)	17 x 84
Free-Standing	●
Pack Size	2 x 50



Round Bottom Tubes

For reliable performance and dependable quality choose Alpha Laboratories non-sterile, rimless test tubes.

- Available in a variety of sizes and volumes from 2ml to 12ml
- High chemical compatibility
- Centrifuge up to 3000g

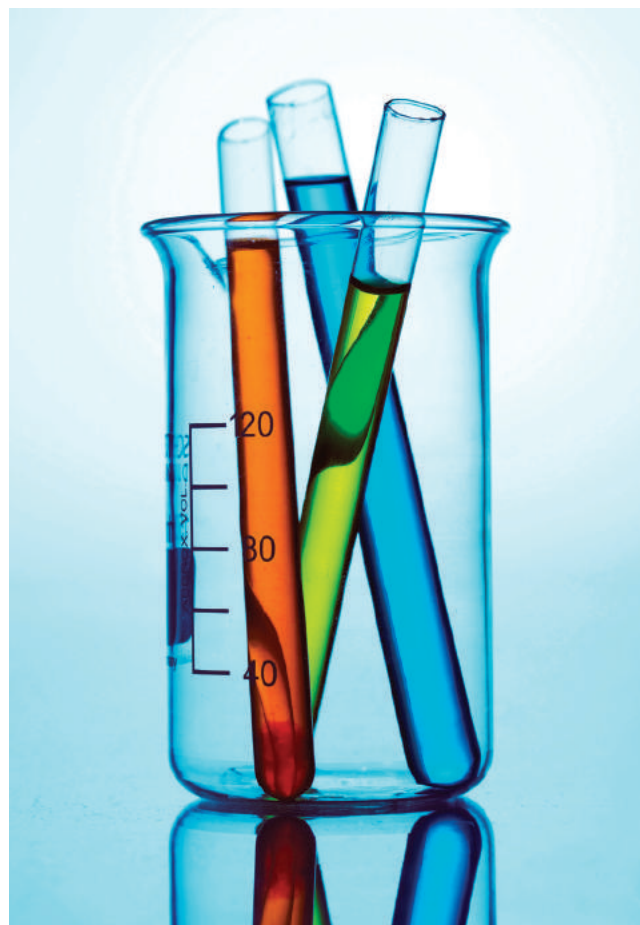
Clear Polystyrene Tubes

Manufactured from high-clarity polystyrene for applications requiring high visibility of contents.

Suitable for use in cell culture work and can be used with many aqueous solutions, mild bases and weak acids. They should not be used with volatile chemicals. Polystyrene test tubes are suitable for use within a temperature range of -10C to 70C.

Polypropylene Tubes

Manufactured from tough, opaque polypropylene for demanding applications that require a more robust tube with greater chemical resistance, higher centrifugation tolerance and higher temperature stability. They are suitable for use within a temperature range of -10C to 121C and can be autoclaved.



Polystyrene Tubes

Catalogue Number	Description	Pack Size
TU11042PS	Test Tube Round Bottom PS 11x42mm 2ml	1500
TU12055PS	Test Tube Round Bottom PS 12x55mm 4ml	1000
TU12075PS	Test Tube Round Bottom PS 12x75mm 4.5ml	1000
TU13075PS	Test Tube Round Bottom PS 13x75mm 5ml	1000
TU13100PS	Test Tube Round Bottom PS 13x100mm 8ml	400
TU16100PS	Test Tube Round Bottom PS 16x100mm 12ml	1000

Polypropylene Tubes

Catalogue Number	Description	Pack Size
TU12055PP	Test Tube Round Bottom PP 12x55mm 4ml	1000
TU12075PP	Test Tube Round Bottom PP 12x75mm 4.5ml	1000
TU13075PP	Test Tube Round Bottom PP 13x75mm 5ml	1000
TU13100PP	Test Tube Round Bottom PP 13x100mm 8ml	500
TU16100PP	Test Tube Round Bottom PP 16x100mm 12ml	6x200

Vacu-Re-Caps

Stretchable closure used to re-seal blood or other types of tubes.



Vacu-Re-Caps		
Catalogue Number	Description	Pack Size
AP0025	12mm Vacu-Re-Caps, Natural	1000
AP0121B	12mm Vacu-Re-Caps, Blue	1000
AP0121G	12mm Vacu-Re-Caps, Green	1000
AP0121Y	12mm Vacu-Re-Caps, Yellow	1000
AP0121P	12mm Vacu-Re-Caps, Purple	1000
AP0121R	12mm Vacu-Re-Caps, Red	1000
AP0021	15.2mm Vacu-Re-Caps, Natural	1000
AP0125R	15.2mm Vacu-Re-Caps, Red	1000
AP0125G	15.2mm Vacu-Re-Caps, Green	1000
AP0125P	15.2mm Vacu-Re-Caps, Purple	1000

Tube Volume Adaptors



Polypropylene tube insert to convert the volume of a 12mm diameter tube to 1.5ml or 3.0ml.

- Ideal for paediatric samples

Tube Volume Adaptors		
Catalogue Number	Description	Pack Size
AP0024	1.5ml Plastic Insert for 12mm tube	4000
AP0022	3.0ml Plastic Insert for 15.2mm tube	1500

Polyethylene Plug Caps

Plug caps offer a leak resistant seal for test tubes and other tubes. They are made from polyethylene and have a ribbed surface with high grip for easier handling. They have 2 sealing ribs for a firm seal with the tube (except CP3212 which is a flanged plug cap). These plug caps are supplied natural in colour and are non-sterile.

- Manufactured from polyethylene
- Ribbed surface to improve grip
- Double sealing ribs prevent leaking
- Suitable for sealing tubes of diameter 12mm to 16mm

12mm



13mm



16mm



Polyethylene Plug Caps		
Catalogue Number	Description	Pack Size
TU1200	Cap for 12mm Diameter Tube	1000
TU1300	Cap for 13mm Diameter Tube	2500
TU1600	Cap for 16mm Diameter Tube	1000
CP3212	Flanged Plug Cap for 12mm Diameter tube, Green	1000

Containers for Sample Collection, Transport, Storage and Processing

EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory

95kPa



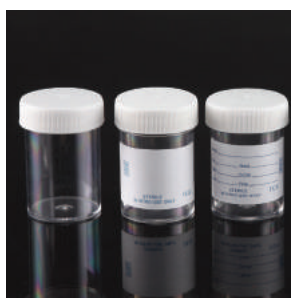
EveryDay Containers

Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500



Aseptic 60ml Container PS/PE

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal



60ml Container PS/PE		
Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

Universal Containers - Polypropylene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	Yes	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	Yes	PP/PP	Printed	Aseptic	400	No
CW3830	30ml Universal with Spoon	Yes	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	Yes	PP/PP	No	Aseptic	400	50

Universal Containers - Polystyrene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	No	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	No	PS/PP	Plain	Aseptic	400	No
IR1390	30ml Universal	Yes	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	Yes	PS/PP	Printed	Aseptic	400	No
CW3810	30ml Universal with Spoon	No	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	No	PS/PP	No	Aseptic	400	No



Transport Tubes

Manufactured from virgin polypropylene, these tubes are free-standing with an internal conical base and in-mould graduations in 5ml increments. The screw cap is supplied with the tube and is manufactured from polyethylene.

They are 95kPa tested for the storage and transport of urine, sputum and most liquids of particulate samples.

The tubes are lot by lot certified free of DNA, DNase, RNase and Endotoxins.

They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes

Catalogue Number	Description	Pack Size
TT1500	Transport Tube 50ml, Yellow Screw Cap, Non-Sterile, Graduated	100 x 5
TT1500S	Transport Tube 50ml, Green Screw Cap, Sterile, Graduated	25 x 20

Sample Handling

Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



Bijou Containers

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene

Transport Tubes



These transport tubes are ideal for sample collection and transport. Manufactured from virgin polypropylene, they are free-standing with an internal conical base, printed graduations and a frosted writing area. The green screw cap is supplied with the tube and is manufactured from polyethylene.

The tubes are ideal for any sample transport and collection. They are IATA 95kPa compliant for the storage and transport of a wide range of solid or liquid specimens.

These sample containers are suitable for sample transport according to UN3373 packaging instruction when combined with appropriate secondary and tertiary packaging such as Alpha Laboratories SpecSafe range.

The tubes are lot certified free of DNA, DNase, RNase, ATP and endotoxins. They are autoclavable at 121C and can be used for freezing samples.

Transport Tubes

Catalogue Number	Description	Pack Size
TT1050	5ml Transport Tube, Screw Cap	2 x 500
TT1050S	5ml Transport Tube, Screw Cap, Sterile	10 x 50
TT1100	10ml Transport Tube, Screw Cap	2 x 500
TT1100S	10ml Transport Tube, Screw Cap, Sterile	10 x 50

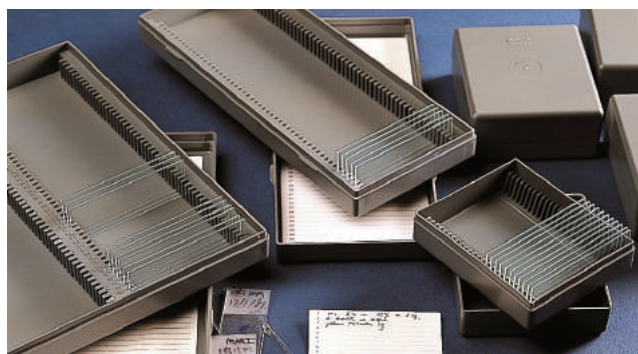




Micro Slide Boxes

Microslide boxes are designed for use with standard 76cm x 26cm microscope slides. They are manufactured from high impact polystyrene which is virtually unbreakable. A lid is supplied with each box for the safe storage of your glass or plastic slides. The lid is completely removable for easy access.

Each of the slots are well spaced for easy handling of the slides. Each slot is clearly numbered and can be cross-referenced against a corresponding index card.



Micro Slide Boxes

Catalogue number	Description	Pack Size
0027600	Micro slide boxes 25 places	4
0027800	Micro slide boxes 100 places	1

Culture Tools

Great value, colour-coded culture tools in smooth plastic. Free of lubricants so no risk of contamination.

Supplied sterile.



Culture Tools

Catalogue number	Description	Pack Size
CS0010	Cell Spreader L-Shape Blue 1/PeelWrap, Sterile (EO)	500
CS0050	Cell Spreader L-Shape White 5/PeelWrap, Sterile (IR)	80x5
IN2010	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Flexible, Light Green, Sterile (IR)	50x20
IN2020	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Green, Sterile (IR)	50x20
IN2030	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Flexible, Light Blue, Sterile (IR)	50x20
IN2040	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Blue, Sterile (IR)	50x20
IN2050	Innoculation Needle Plastic Hard, 20/Ziplock Bag, Violet, Sterile (EO)	50x20

Consumables for Sample Processing

Petri Dishes

Petri Dishes are routinely used by microbiologists to culture micro-organisms on solid media. All types are aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination.

Petri Dishes are available in three different sizes with single, triple or non-vented formats :-

- Triple vented - aids gaseous exchange and are ideally suited for short term work.
- Single vented - limits gaseous exchange, minimises evaporation and dehydration making them well suited for long term work.
- Non-vented - most suitable for anaerobic and long term work.

Other sizes available - please see our website.

90mm Petri Dishes

These 90mm petri dishes are manufactured from virgin polystyrene in mirror finished moulds to ensure the highest optical clarity. They are produced and tested in accordance with the BS611 part 2 standard which includes stringent dimensional controls.

- Ideal for use in automatic plate pourers

30mm Petri Dish

Ideal for use when savings in media or incubator space are required.

100mm Square Petri Dish

A non-compartmentalised dish which is ideal for antibiotic sensitivity testing when a large surface area and very flat base are required.



90mm Petri Dishes

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1370	90mm Non-Vented Petri Dish	Yes	No	500
RC2270	90mm Single Vent Petri Dish	Yes	No	20 x 25
RC2260	90mm Triple Vent Petri Dish	Yes	No	20 x 25

30mm Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1375	30mm Triple Vent Petri Dish	Yes	No	800

100mm Square Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1365	100mm Square Single Vent Petri Dish	Yes	No	120

Spatulas

These polystyrene spatulas with a flattened paddle at one end, are great for measuring out and mixing small amounts of reagent and chemicals. Highly resistant and virtually unbreakable, they have a million and one uses throughout the lab!

Spatulas		
Catalogue Number	Description	Pack Size
US0120	Spatula 120 x 3mm	500



Antistatic Weighing Dishes

The Alpha polystyrene weighing dishes will resist diluted acids, aqueous solutions, alcohols and bases. They are ideal for many applications such as weighing, dispensing or storing. They are safe, contaminant-free, biologically inert, economical containers for weighing liquid or powdered samples in the laboratory. Flat bottoms ensure perfect stability on counters. They have a smooth surface providing accurate pour-outs with minimal sample loss and facilitating weighing of static-prone samples.

The Alpha dishes can also be used as quick freeze trays for sample material, discard trays for broken ampoules, or mixing trays for small batches. They will also withstand temperatures up to 80°C.

Antistatic Square Weighing Dishes

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2501	10	41 x 41 x 8 H	500
DA2502	100	89 x 89 x 25 H	500
DA2503	330	140 x 140 x 25 H	500

Antistatic Hexagonal Weighing Dishes

Catalogue Number	Volume (ml)	Top I.D. (mm)	Bottom I.D. (mm)	Pack Size
DA2521	20	38	25	500
DA2522	50	64	51	500
DA2523	200	102	76	500

Antistatic Pour Boats

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2511	20	80 x 41 x 8 H	250
DA2512	140	133 x 76 x 25 H	250
DA2513	270	197 x 121 x 25 H	250



Sample Cups



Made from optically clear, virgin polystyrene, Alpha's Sample Cups are suitable for use on chemistry and coagulation analysers.

- Comprehensive range to fit most analysers
- Caps available for re-sealing QT1500A, QT1502A, QT2110A & QT2120A

Sample Cups

Catalogue Number	Description	Volume	Ø mm	Height mm	Pack Size
QT1500A	Technicon Sample Cup	1.5ml	13.8	22.6	1000
QT1502A	Technicon Sample Cup	2.0ml	13.7	24.9	1000
QT1520A	Technicon Sample Cup	4.0ml	17.26	37.9	1000
QT2110A	Centrifichem Sample Cup	0.25ml	13.7	16.4	1000
QT2120A	Gemsaec Sample Cup	0.50ml	13.55	24.5	1000
QT2600A	Hitachi Sample Cup	2.0ml	16.75	38	1000
QT1550A*	Push Cap	-	-	-	1000

* Caps compatible with QT1500A, QT1502A, QT2110A & QT2120A only

Counting Vials



Manufactured from clear polystyrene, these multi-purpose vials are suitable for blood counting or general dilutions. Clear vial with polyethylene cap.

- Caps included
- Clear polystyrene

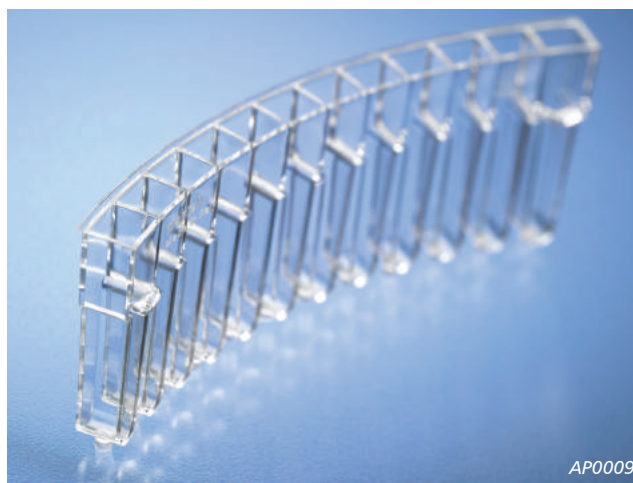
Counting Vials

Catalogue Number	Description	Volume	Size H x Ø	Pack Size
CV4010	Coulter Counting Vial with cap, square based	25ml	60 x 32mm	2 x 250
CV4020	Counting Vial with cap	15ml	45 x 22mm	500

Cobas Mira Consumables

Micro test tubes with tethered cap for use in Cobas Mira and Fara systems. Manufactured from polypropylene and available in a choice of colours.

Also available, Cobas Mira reaction cuvettes, supplied individually wrapped.



Cobas Mira Consumables

Catalogue Number	Description	Pack Size
AP0001	Cobas Sample Cups, White	1000
AP0004	Cobas Sample Cups, Pink	1000
AP0009	Cobas Cuvette Segments	450

Cuvettes

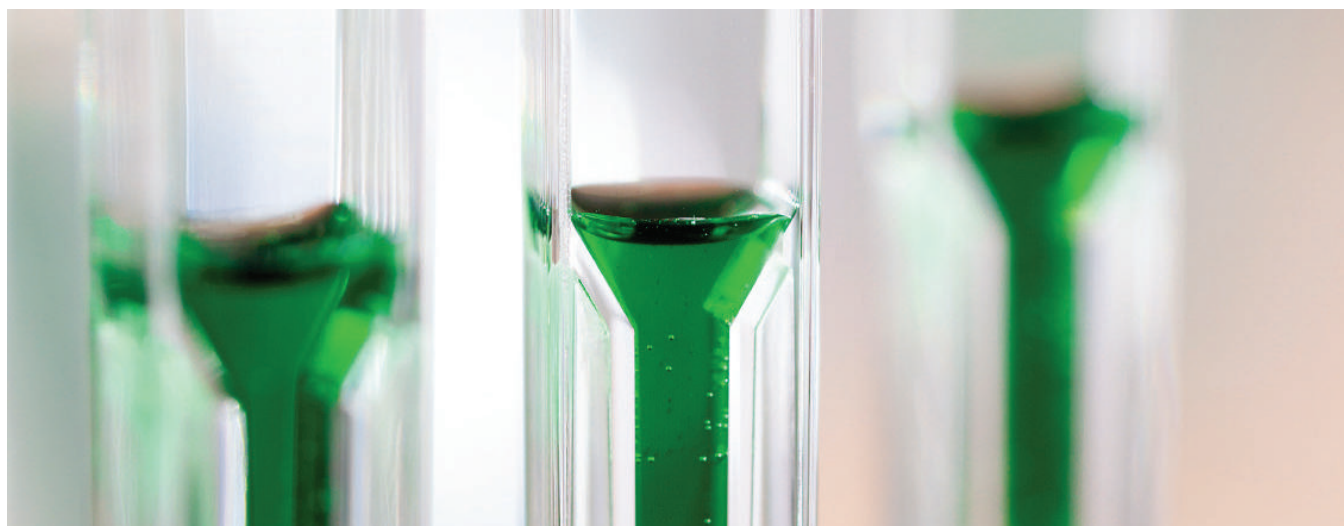
Disposable cuvettes for use in most standard spectrophotometers. Available in macro or semi-micro sizes for measuring UV.

■ Path length – 1cm

Disposable Cuvettes

Catalogue Number	Description	Pack Size
X72053	Semi-Micro Cuvette, UV, PMMA*, 1.5ml	1 x 100
X72054	Macro Cuvette, UV, PMMA*, 4.0ml	1 x 100

*PMMA = Polymethyl methacrylate



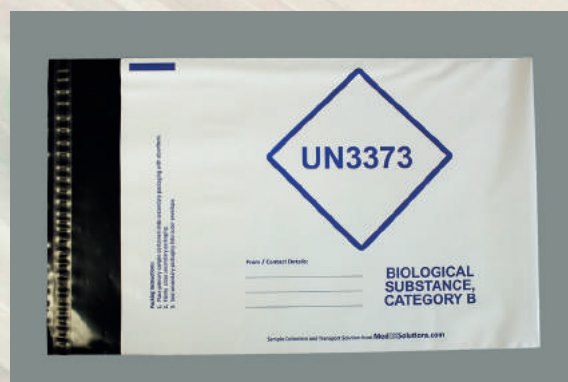
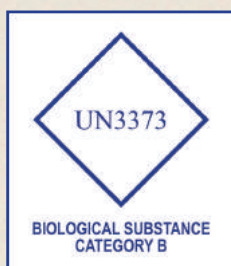
SpeciSafe®

Safe, Convenient and Economical Sample Transport Solution

When used with 95kPa tested tubes, SpeciSafe packs are compliant with UN3373 regulations.

A wide range of designs to fit commonly used specimen tubes including blood and urine tubes.

See pages 102-105 for more information.



Sample Collection & UN3373 Packaging

Biological specimens fall under the Dangerous Goods Regulations since they may contain pathogens. Their transport is strictly controlled and it is a legal and mandatory requirement to comply with the regulations.

Samples such as blood, tissue, excreta, secretions etc. from humans or animals (which are not assigned to Category A, Infectious Substances), are considered to be Category B Biological Substances. These are assigned to UN3373 and must be packaged according to the Dangerous Goods IATA (air) or ADR (road) Packing Instruction 650 for transport.

Alpha Laboratories helps make compliance convenient, consistent and cost-effective with unique packaging solutions. If you are unsure about what you need for compliance please refer to our easy to follow guide on page 91.

Further support and resources can also be found at www.UN3373.co.uk

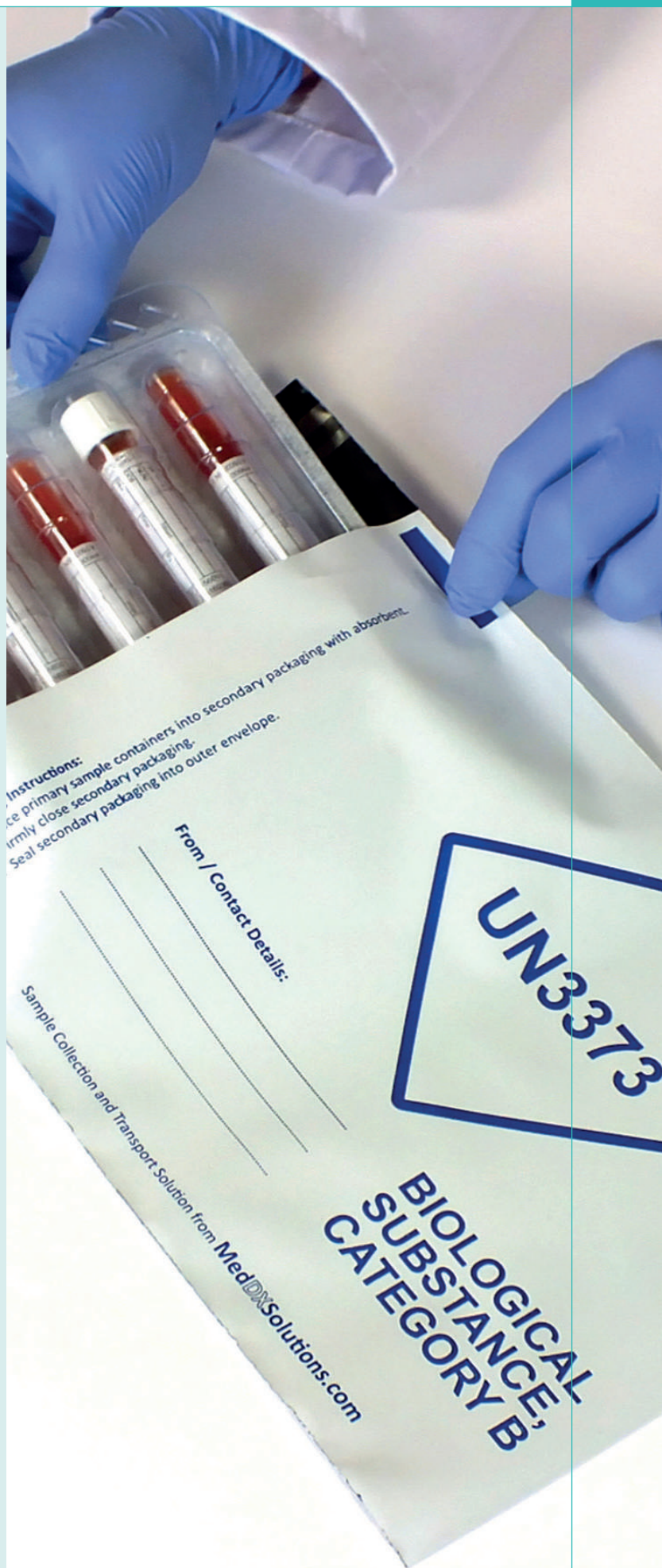
What's New?

- PeeCanter
- Complete Kits for Sample Transport
- Full range of UN3373 Compliant Packaging Materials

Contents

Page/s

Understanding the Regulations	88-91
Sample Collection Solutions	92-94
Primary Containers for Sample Transport	94
- for Air Transport	95-97
- for Road Transport	98-99
- Leak-Proof Tested	100-101
Slide Mailers	101
Secondary Packaging Solutions for Air or Road Transport	102
- for Air Transport	106
- for Road Transport	107
SpeciSafe® Complete Mailing Packs	102-105
Outer Packaging Solutions for Air or Road Transport	108
Mailing Bags & Envelopes for Road Transport	109
Complete Kits for Sample Transport	110-112



Understanding the Regulations

Visit our dedicated website www.un3373.co.uk to access videos, brochures and guidelines.

Key Requirements of UN3373 Regulations

Here you will find a brief overview of the classification of infectious substances, and the key requirements for transporting UN3373 Biological Substance, Category B.

Transport of any material which is considered hazardous in any way, can only be conducted in a manner which is compliant with the Dangerous Goods Regulations. This includes any materials derived from human or animal sources which has the potential to contain pathogenic organisms.

There are 2 main classes of infectious material:

Category A

"An infectious sample which is transported, in a form that when exposure to it occurs, is capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals.

Infectious substances meeting these criteria which cause disease in humans or both in humans and animals must be assigned to UN2814. Infectious substances which cause disease only in animals must be assigned to UN2900."

Category A Infectious Substances are considered to be high consequence dangerous goods. Transport of these substances must only be carried out by fully trained and certified handlers. Please refer to the IATA or ICAO websites for further information.

Category B

An infectious substance which does not meet the criteria for inclusion in category A. Infectious substances in Category B must be assigned to UN3373 – Biological Substance, Category B.



P650 Packaging Instruction Key Requirements for Road Transport (ADR)

Infectious substances assigned to Category B (UN3373) can be transported by specialised couriers or the Royal Mail, provided they comply with packaging instruction P650 as specified within the dangerous goods manuals. Always check with your transport provider before shipping.

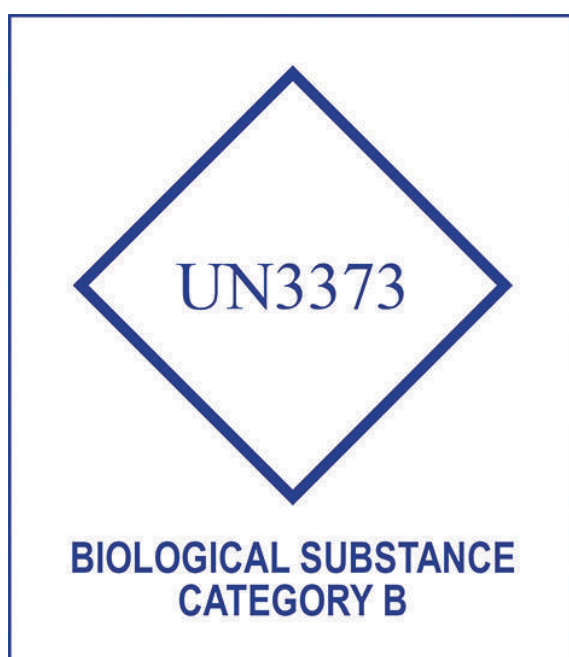
The packaging must be of good quality and strong enough to withstand the shocks and loadings normally encountered during transport. It must prevent any loss of contents that could occur due to vibration or changes in temperature, humidity or pressure. The P650 packaging instructions for liquid substances state:-

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacle(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar).
- f) The outer packaging or the secondary packaging shall be rigid and the entire packaging solution will have passed the 1.2m drop test.
- g) Suitable cushioning material shall be added to prevent too much movement within the package.
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"

P650 Packaging Instruction Key Requirements for Air Transport (IATA)

The key differences compared to transport via road are **highlighted** for clarity

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacles(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar) **in the range of -40C and +55C**
- f) The outer packaging shall be **rigid** and the entire packaging solution will have passed the 1.2m drop test
- g) Suitable cushioning material shall be added to prevent too much movement within the package
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"
- i) **The outer packaging must have one surface of minimum dimensions 10 x 10cm**
- j) **Maximum volume per primary is 1L**
- k) **Maximum volume per outer is 4L**
- l) **The outer packaging must contain an itemised list of contents**



Official UN3373 Regulation Resources

Alpha Laboratories advises all users to consult the official bodies responsible for safe transport of hazardous material. Visit our dedicated website www.un3373.co.uk to access these links on line.

IATA

The absolute rules for shipping Dangerous Goods by Air.

www.iata.org/whatwedo/cargo/dgr/Documents/infectious-substance-classification-DGR56-en.pdf

www.iata.org/whatwedo/cargo/dgr/Documents/packing-instruction-650-DGR56-en.pdf



International Civil Aviation Organisation (ICAO)

Technical Instructions for the Safe Transport of Dangerous Goods by Air

www.icao.int/publications/Documents/guidance_doc_infectious_substances.pdf



Department for Transport, HSE, Maritime and Coastguard Agency and Civil Aviation Authority

Transport of infectious substances UN2814, UN2900 and UN3373

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/527069/dangerous-goods-guidance-note-17.pdf



Department
for Transport

World Health Organisation

Transport of Infectious Substances

www.who.int/ihr/publications/who_hse_ihr_20100801_en.pdf?ua=1



World Health
Organization

You can also refer to your courier's website for advice.

UN3373 Packaging Guide for Air and Road Transport

Are You Transporting Biological Samples by Air or Road?

Follow these Guidelines to Ensure Your Compliance and Find the Products You Need

Air		
↓		
Is Your Primary Container Certified 95kPa at both -40C and +55C? ^{1,2}		
Yes	No	
↓	↓	
You need Leak-Proof Secondary Packaging with Absorbent ³ using either...		You need a Secondary Pouch Certified 95kPa at both -40C and +55C with Absorbent ³ (see page 107)
An all-in-one SpecSafe [®] Pack (see page 103)	A Bag (see page 106) + Absorbent ³ (see page 105)	↓
↓	↓	↓
Rigid Outer Packaging Required ⁴ (see page 108)		

Road		
↓		
Is Your Primary Container Certified 95kPa at Ambient Temperature?		
Yes	No	
↓	↓	
You need Leak-Proof Secondary Packaging with Absorbent ³ using either...		You need a Secondary Pouch Certified 95kPa at Ambient Temperature with Absorbent ³ (see page 107)
An all-in-one SpecSafe [®] Pack (see page 103)	A Bag (see page 106) + Absorbent ³ (see page 105)	↓
↓	↓	↓
Flexible Outer (see page 109)	Rigid Outer Packaging Required ⁴ (see page 108)	

Note 1. The 95kPa pressure differential test is required for either the primary or secondary container. If the primary container does not have this certification, or you are unsure, you should use a 95kPa certified secondary container.

Note 2. The required pressure differential test is different for air and road transport. For road transport the test is conducted at ambient temperature. For Air transport it must also be conducted at both -40C and +55C.

Note 3. Absorbent material must be capable of absorbing the entire contents of the primary containers.

Note 4. For air transport, you must use a rigid outer box.

Note 5. For road transport the rigid element of the packaging can be either the secondary or the outer packaging.

Important - Always check with your transport provider to ensure they do not have any additional special conditions for transport of Biological Substances.



Sample Collection Solutions

Fe-Col® Faecal Collection Papers

Hygienic and Convenient for the Patient, Quality Samples for the Laboratory

There are numerous assays now available that can diagnose clinical conditions from the biomarkers, analytes or pathogens found in faecal samples.

However, collecting a faecal sample is difficult and unpleasant and the various methods used can cause erroneous results and additional work for the laboratories.

New Fe-Col® Papers Solve the Problem

Fe-Col® is a unique, disposable stool collection paper, which is easily and securely placed on the toilet and can be flushed away entirely after use as it is completely degradable.

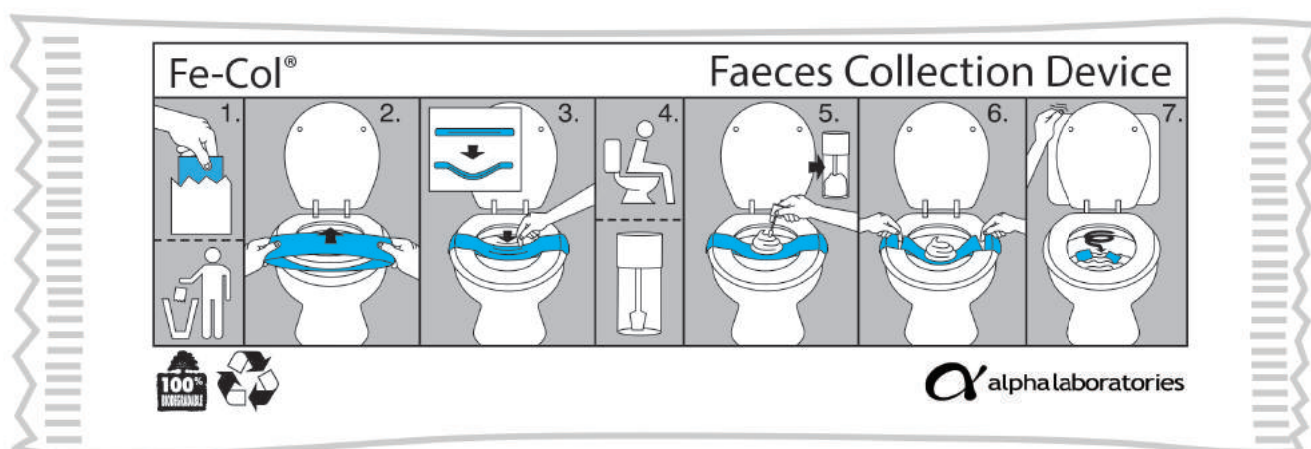
Available on its own with clear pictorial instructions for use, or in various kit formats for use by patients in clinics or at home, complete with return UN3373 compliant mailing packs.

Features:

- Made from wood-free paper
- Flushable & biodegradable
- No optical brightness additives (e.g. bleach)
- Simple instructions for use
- Flow-seal packaging
- Small and compact
- Recycled material

Perfect for:

- Clinical Trials
- Screening Programmes
- Faecal Elastase Testing
- Fat content tests
- Infectious disease tests etc.



Benefits

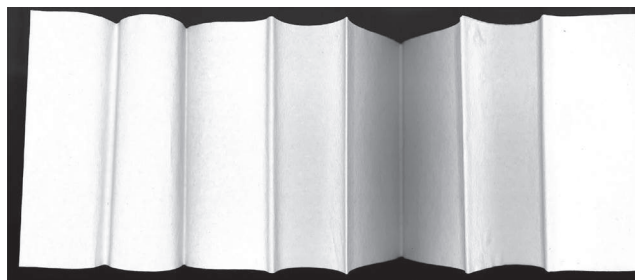
For the patient

- Easy to use
- Use the toilet as normal
- Hygienic
- No mess
- Nothing to throw away
- No toilet blockages

For the Testing Laboratory

- Encourages increased uptake on screening programmes
- Less contamination
- Less variability
- More accurate results
- Reduction of pre-analytical errors
- Fewer repeat tests
- Reduce overall laboratory costs

Fe-Col® is supplied in a discreet, flat flow-wrapped package. When unwrapped and unfolded it opens up to slip easily onto the toilet seat ready for use. It remains firmly in place whilst some of the sample is transferred into an appropriate vessel. A full range of sample collection containers and tubes are available from Alpha Laboratories, please see the website. Alternatively choose one of the Fe-Col kits with inclusive faecal storage container.



FC2040 - Faecal Collection Kit Mini

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 2 x Polysynthetic gloves
- 2 x Cardboard applicators
- 1 x Instructions for use



FC2052 - Faecal Collection Kit Basic

Each kit contains:

- 1 x Fe-Col® faecal collection paper enclosed in a flow-sealed pack size 65 x 170mm (FC2010)
- 1 x Faecal storage container (CW3830) enclosed within
- 1 x SpecSafe mailing pack (SH0600SS)
- 1 x UN labelled mailing envelope (SH1000)
- 1 x Instructions for use



FC2030 - Fe-Col® Dispenser Box

Fe-Col® is also available in a handy dispenser box containing 50 faecal collection papers each enclosed in a flow-sealed pack with instructions. This is convenient for use in clinics, surgeries and dispensaries.



Fe-Col® Faecal Collection Papers		
Catalogue Number	Description	Pack Size
FC2010	Fe-Col Faeces Collection Paper with Instructions for Use (IFU)	1000
FC2030	Fe-Col Faeces Collection Paper with Instructions for Use in Dispenser Box. 5 boxes of 50	5 x 50
FC2040	Faeces Collection Kit Mini containing Fe-Col with IFU, gloves and cardboard applicators	100
FC2052	Faeces Collection Kit Basic contains Fe-Col with IFU, Sample container, SpecSafe mailing pack and UN labelled mailing envelope	40

PeeCanter Urine Sample Collection Device

The PeeCanter is a discreet and handy pop-up urine collection cup. It is supplied flat-packed, which reduces postal costs and storage space, and makes it ideal for inclusion into home testing kits where patients need to collect their own samples.

The PeeCanter is simple and quick to assemble, simply press with finger and thumb in the marked areas and the 3D cup locks into position. The wide (50mm) aperture makes it easier to collect the sample reducing spillages and the square design of the cup provides a natural and accurate pouring spout for decanting into the final urine storage or transport container.

The design reduces the opportunity for crushing/cracking during the delivery and collection process, thus increasing the potential for return of usable sample.

Manufactured from card lined with a waterproof plastic sleeve, the maximum fill capacity is 200ml. The collection cup measures 50 x 50 x 120mm (w x d x h) in its fully opened 3D shape.



Ideal for Point of Care Diagnostic Kits, Clinical trials, Sample Collection Kits, or anywhere there is a need to collect a urine sample.

PeeCanter Urine Sample Collection Device

Catalogue Number	Description	Pack Size
4U2P-100	PeeCanter Urine Sample Collection Device with Instructions for Use	100
4U2P-500	PeeCanter Urine Sample Collection Device with Instructions for Use	500
4U2P-1000	PeeCanter Urine Sample Collection Device with Instructions for Use	1000

Swabs

A selection of plain and transport swabs for collection and safe transport of bacteriological, serological and cytological samples. Plain swabs are CE-marked for IVD and transport swabs as Class IIa in accordance with Medical Devices Directive 93/42/EEC.



Swabs

Catalogue number	Description	Method of Sterilisation	Pack Size
SW1020	Plain Swab, Wooden Stick/ Cotton Tip, Non-Sterile	-	10 x 100
SW1030	Plain Swab, Wooden Stick/ Cotton Tip, Sterile	EO	100
SW1010	Transport Swab in White Cap PP Tube, PS Stick/Viscose Tip, Sterile	IR	500

EO = Ethylene Oxide Sterilisation
IR = Irradiation



Primary Containers for Sample Transport

Once collected, samples need to be stored and transported securely without the risk of contamination or leakage.

The key requirement for primary containers to transport samples is that they are leak-proof. Here we offer a range of primary containers which are tested and certified to be leak-proof.

However to meet the UN3373 P650 packaging instruction, either the primary or secondary container must have been tested specifically to withstand a 95kPa pressure differential test. For road transport this test should be conducted at ambient temperature, but for air transport, the test must also be conducted at -40C and +55C.

This means a leak-proof container, which has not been demonstrated to pass the 95kPa pressure differential test, can only be used for sample transport when combined with a secondary container which has passed the appropriate test.

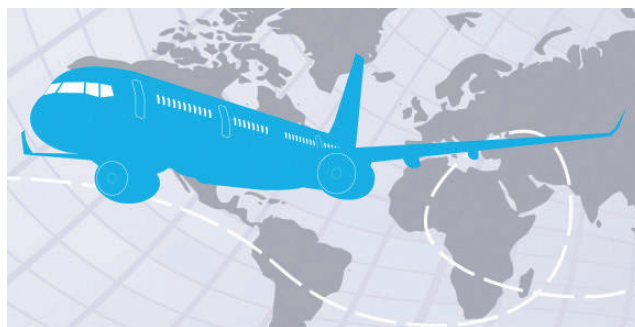
We have categorised the sample containers according to their certification, however tubes certified to the IATA standard may also be used for other forms of transport.

Please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91 for further guidance.

Primary Sample Containers Certified 95kPa Compliant for Air Transport

To be used with a leak proof secondary, absorbent and outer rigid box.

- Transport Tubes
- ProtectR®
- Blood Collection Tubes



Transport Tubes



These transport tubes are ideal for sample collection and transport. Manufactured from virgin polypropylene, they are free-standing with an internal conical base, printed graduations and a frosted writing area. The green screw cap is supplied with the tube and is manufactured from polyethylene.

They are IATA 95kPa compliant for the storage and transport of a wide range of solid or liquid specimens.

These sample containers are suitable for sample transport according to UN3373 P650 packaging instruction when combined with appropriate secondary and tertiary packaging such as Alpha Laboratories Specisafe range.

The tubes are lot certified free of DNA, DNase, RNase, ATP and endotoxins. They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes		
Catalogue Number	Description	Pack Size
TT1050	5ml Transport Tube, Screw Cap	2 x 500
TT1050S	5ml Transport Tube, Screw Cap, Sterile	10 x 50
TT1100	10ml Transport Tube, Screw Cap	2 x 500
TT1100S	10ml Transport Tube, Screw Cap, Sterile	10 x 50

IATA 95kPa Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO₂ resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO₂, keeping the sample pH stable and preventing acidification.

IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.



Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)
- Patented, extra large smudge-resistance writing panel
- Easy-to-read graduations & reverse scale

ProtectR® 15ml and 50ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

SampleTite™ Prime Containers

A Secure Solution for Sample Collection, Storage and Transportation

SampleTite™ Prime Specimen Containers have been designed for applications where strict adherence to regulatory requirements for the safe collection, storage and transportation of biological samples is essential.

The containers are manufactured from durable polypropylene and the various coloured caps are made from high density polyethylene (HDPE).

SampleTite™ Prime Specimen Containers are food contact approved and testing has been carried out for suitability with aggressive chemicals such as formaldehyde.

They are widely used in a range of applications including pathology, histology, water sampling and metals analysis.

- High clarity
- Easy opening and closure



Leak-proof, 95kPa Tested to IATA Standard for Compliant Sample Transport

A process validation has been carried out on these disposable plastic specimen containers to ensure the unique “double seal” closure technology remains leak-proof under a pressure differential of no less than 95 kPa (0.95bar, 14 psi) at both -40C and +55C, making them suitable as a primary container for air transport of UN3373 biological samples. Flexible Packaging Systems.

SampleTite™ Prime Containers		
Catalogue Number	Description	Pack Size
STC0120SJ	SampleTite Prime Specimen Container 120ml Clear Non-Sterile	500
STC0120CO	SampleTite Prime Specimen Cap 120ml Orange Non-Sterile	500
STC0120CP	SampleTite Prime Specimen Cap 120ml Purple Non-Sterile	500
STC0120CR	SampleTite Prime Specimen Cap 120ml Red Non-Sterile	500
STC0120CW	SampleTite Prime Specimen Cap 120ml White Non-Sterile	500
STC0120CY	SampleTite Prime Specimen Cap 120ml Yellow Non-Sterile	500



Primary Sample Containers Certified 95kPa Compliant for Road Transport

To be used with a leak-proof secondary, absorbent and either flexible or rigid outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91).

- 30ml polypropylene Universal Containers
- 30ml polystyrene Universal Containers
- EveryDay Containers



ADR 95kPa Certified - 30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.



Universal Containers - Polypropylene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	PP/PP	Printed	Aseptic	400	No
CW3830	30ml Universal with Spoon	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	PP/PP	No	Aseptic	400	50

Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
IR1390	30ml Universal	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	PS/PP	Printed	Aseptic	400	No



CW3840



CW3850



CW3830



IR1385



IR1390



CW3820

EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory



EveryDay Containers

Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500

Transport Tubes

Manufactured from virgin polypropylene, these tubes are free-standing with an internal conical base and in-mould graduations in 5ml increments. The screw cap is supplied with the tube and is manufactured from polyethylene.

They are 95kPa tested for the storage and transport of urine, sputum and most liquids of particulate samples.

The tubes are lot by lot certified free of DNA, DNase, RNase and Endotoxins.

They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes

Catalogue Number	Description	Pack Size
TT1500	Transport Tube 50ml, Yellow Screw Cap, Non-Sterile, Graduated	100 x 5
TT1500S	Transport Tube 50ml, Green Screw Cap, Sterile, Graduated	25 x 20

Primary Sample Containers - Leak-Proof Tested

Leak-proof tested in accordance with BS EN 14254 Annexe D except CW3880 and CW3890 which are tested to BS5213:1975 (1989) Appendix A.

Note: Require an appropriately certified secondary container dependant on mode of transport, plus absorbent and outer packaging (please refer to the UN3373 Packaging Guide for Air & Road Transport on page 91).

- Bijou Containers
- 30ml polypropylene Universal Containers
- 60ml polystyrene Universal Containers
- Aseptic Containers

Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



Bijou Containers

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene

30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polystyrene. All have a conical base and are self-standing.

For stool collection there are options with a sampling scoop/spoon attached to the cap.

Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

Universal Containers - Polystyrene Tube

Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	PS/PP	Plain	Aseptic	400	No
CW3810	30ml Universal with Spoon	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	PS/PP	No	Aseptic	400	No

60ml Containers

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal
- Leak-proof tested in accordance with BS EN 14254 Annex D



60ml Containers

Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

Other Primary Sample Containers

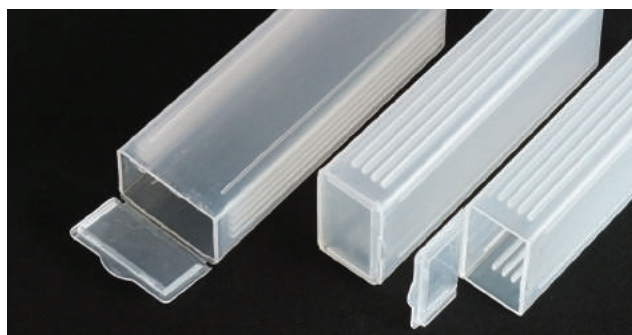
Slide Mailers

These polypropylene slide mailers offer a convenient solution for long-term storage or mailing of up to 5 slides.

These end opening mailers have an integral snap seal to keep out dust and moisture and protect slides from breakage. Internal ridges keep slides separated.

The mailers can also be used for storage of slides and can be used in staining procedures as an inexpensive substitute for a staining chamber or coplin jar.

Supplied non-sterile.



Slide Mailers

Catalogue number	Description	Pack Size
SM0505	Polypropylene Mailing Container for 5 76x26mm Microscope Slides	100

Secondary Packaging Solutions for Air or Road Transport

Alpha Laboratories provides a range of sample packaging materials that help make your regulatory compliance convenient, consistent and cost-effective, including the innovative SpecSafe® all in one secondary packaging system. SpecSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

Using SpecSafe® for Air Transport

SpecSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test to IATA standards. The primary container must maintain a 95kPa pressure differential at both -40C and +55C.

For air transport, the outer packaging must be rigid so SpecSafe should be teamed with an outer rigid box.



Using SpecSafe® for Road Transport

SpecSafe packs must be used with primary containers which are certified to have passed a 95kPa pressure differential test at ambient temperature. Since they are rigid, the SpecSafe packs can be placed directly in a flexible envelope or bag, ready for transport. What's more, the dimensions of most SpecSafe packs minimises postage costs. Depending on the sample vial size they can be mailed at large letter or small packet rate.



SpeciSafe® Complete Secondary Mailing Packs for 95kPa Vials

SpeciSafe® Provides a Safe, Convenient and Economical UN3373 Compliant Secondary Sample Packaging Solution

SpeciSafe replaces secondary packaging for mailing Category B samples contained in 95kPa vials. It combines the absorbent material, vial separation and rigid container within a single pre-moulded mailing pack

You then only need to add a UN3373 labelled padded envelope or bag as your outer packaging when transporting by road, or a rigid box for air transport, saving you time and money.

SpeciSafe packs are available in a range of designs to fit perfectly around commonly used 95 kPa sample vessels.

Benefits of SpeciSafe Packs

- Shock resistant primary container protection
- Built-in ultra-absorbent Gel Block – absolutely no leaks!
- Clear plastic enables sample details to be visible without unpacking
- Visible spillage indication prior to opening protects users
- User friendly, quick and intuitive use
- The pre-moulded packs keep multiple primary containers separated from each other
- Compliant flat-pack design minimises postage costs

Ultra-Absorbent Lining Eliminates Leakage

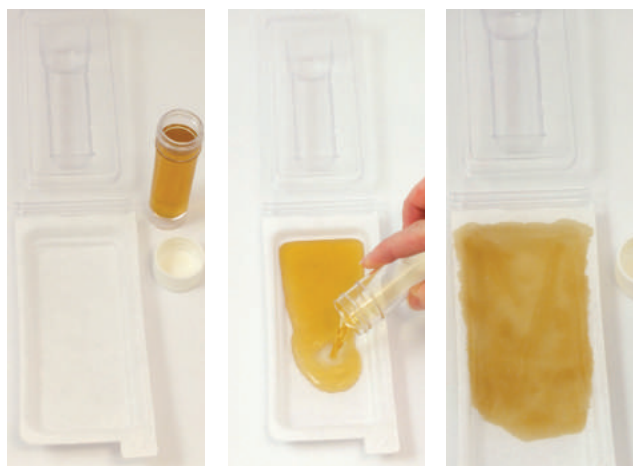
The unique feature of SpeciSafe packaging products is an internally bonded ultra-absorbent lining which soaks up any leakage in seconds.

The material is so absorbent that 1m² can soak up as much as 20 litres of liquid.

Once the lining has absorbed its maximum amount of liquid, it becomes a watertight barrier and effectively seals the SpeciSafe pack preventing any leakage from the secondary container.



When used with 95kPa primary containers, SpeciSafe meets all requirements of UN3373 for secondary packaging.



SpeciSafe® for Micro Blood Tubes or Serum Vials

SpeciSafe secondary mailing packs suitable for transporting micro blood tubes, serum type tubes or 0.5, 1.5 or 2.0ml microtubes. Package just a single tube or up to 10 with speed and ease.



SpeciSafe® for Micro Blood Tubes or Serum Vials		
Catalogue Number	Description	Pack Size
SH0100SS	SpeciSafe Packs to hold 10 Serum Vials	170
SH0110SS	SpeciSafe Packs to hold 10 Serum Vials	50
SH0301SS	SpeciSafe Packs to hold 6 Serum Vials / Micro Blood Tubes	300
SH0311SS	SpeciSafe Packs to hold 6 Serum Vials / Micro Blood Tubes	100
SH1300SS	SpeciSafe Packs to hold 3 Serum Vials	500
SH1700SS	SpeciSafe Packs for 1 Serum Vial / Micro Blood Tube	450
SH1800SS	SpeciSafe Packs for 2 Serum Vials / Micro Blood Tubes	500
SH0800SS	SpeciSafe Packs for 4 Glass Serum Vials	210



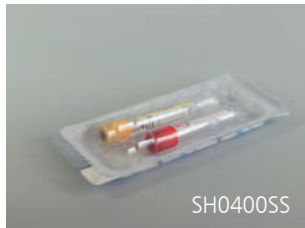
Sample Collection & UN3373 Packaging

SpeciSafe® for Blood Collection Tubes

Ensure safe and compliant transport of various types of evacuating blood collection tubes with this range of SpeciSafe secondary mailing packs. These packs also accommodate microtubes, serum vials and cryovials.



SH0200SS



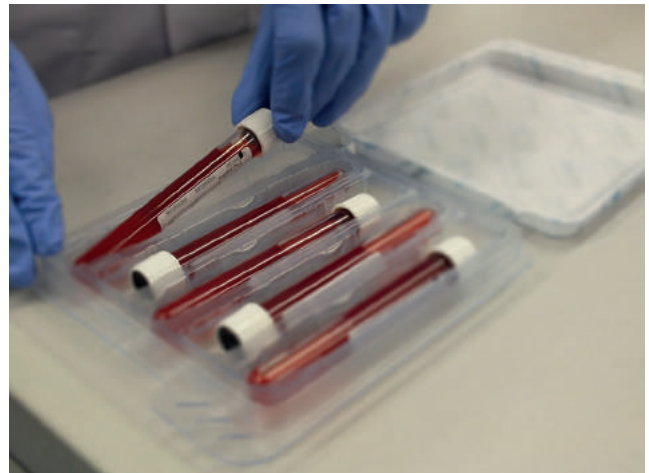
SH0400SS



SH0500SS



SH0701SS



SpeciSafe® for Blood Collection Tubes			
Catalogue Number	Description	Alternative Use	Pack Size
SH0200SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	210
SH0210SS	SpeciSafe Packs to hold 3 Blood Type Tubes up to 6.5ml*	6x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials or 6x cryovials (<2ml) or 3x cryovials (2-5ml)	50
SH0400SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	300
SH0410SS	SpeciSafe Packs to hold 2 Blood Type Tubes up to 10.5ml*	2 smaller blood tubes PLUS a 0.5, 1.5 or 2.0ml screw cap microtube/serum vial or cryovial	100
SH0500SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	500
SH0510SS	SpeciSafe Packs to hold a Single Blood Type Tube up to 10.5ml*	1x cryovial (< 5ml) or 1x 0.5, 1.5 or 2.0ml screw cap microtubes/serum vials	100
SH0701SS	SpeciSafe Packs to hold 5 Blood Type Tubes up to 10.5ml (Universal Fit)	5x Transport Tubes (5 or 10ml)	150

*Please request a sample to check the fit of the blood tubes that you use

SpeciSafe® for Universal Containers

These SpeciSafe secondary mailing packs are designed to fit standard 30ml Universal tubes commonly used as urine or faeces sample containers. There is a single or triple tube option available.



SH1400SS

SpeciSafe® for Universal Containers		
Catalogue Number	Description	Pack Size
SH0600SS	SpeciSafe Packs to hold a Single Universal Container	300
SH0610SS	SpeciSafe Packs to hold a Single Universal Container	100
SH1400SS	SpeciSafe Packs to hold 3 Universal Containers	160



SH0600SS

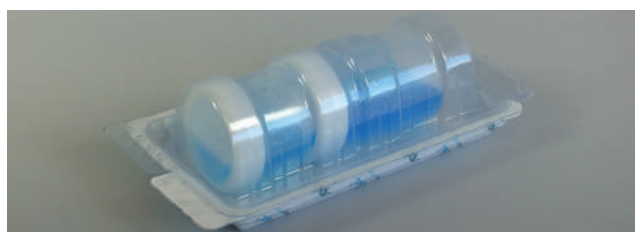
SpeciSafe® for Short Swab Tubes or Bijou Containers

This SpeciSafe pack is suitable for transporting a single compact swab container and similar tubes – popular for sexual health screening and evidence kits. Also compatible with 7ml Bijou type containers and will accommodate two of these.



SpeciSafe® for Large Volume Sample Containers

Large volume sample containers used to collect and transport urine, faeces or tissue specimens can be accommodated in the SH1500SS SpeciSafe. It can hold 3 x 40ml, 2 x 60ml or 1 x 90ml containers, or any two different volumes in combination.



SpeciSafe® for Short Swab Tubes or Bijou Containers

Catalogue Number	Description	Pack Size
SH0900SS	SpeciSafe Packs to hold 1 Swab Tube or 2 x Bijous	300

SpeciSafe® for Large Volume Sample Containers

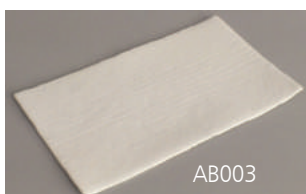
Catalogue Number	Description	Pack Size
SH1500SS	SpeciSafe Packs to hold up to 3 Large Volume Sample Containers	170



Absorbent Sheets

These super absorbent sheets can be used with all types of packaging to help meet UN3373 regulations. Available in 4 sizes specified by the volume that they can absorb, simply choose the one that will absorb at least the total volume of your sample. More than one sheet can be added to any packaging if required, to ensure that it would absorb all the sample in the event of catastrophic leakage.

A 4 or 6 bay absorbent pouch is also available, suitable for sending up to 4 or 6 blood type or similar tubes. This keeps the tubes separated from each other, without the need to wrap each one individually.



Absorbent Sheets

Catalogue Number	Description	Pack Size
AB001	Absorbent Sheet 75 x 125mm - absorbs 50ml	1000
AB001-100	Absorbent Sheet 75 x 125mm - absorbs 50ml	100
AB001-500	Absorbent Sheet 75 x 125mm - absorbs 50ml	500
AB002	Absorbent Sheet 125 x 150mm - absorbs 100ml	500
AB002-100	Absorbent Sheet 125 x 150mm - absorbs 100ml	100
AB003	Absorbent Sheet 150 x 250mm - absorbs 200ml	500
AB003-100	Absorbent Sheet 150 x 250mm - absorbs 200ml	100
AB004	Absorbent Sheet 250 x 300mm - absorbs 400ml	250
AB004-100	Absorbent Sheet 250 x 300mm - absorbs 400ml	100
AB010	Absorbent 4 Bay Pouch for up to 4 blood tubes	500
AB010-100	Absorbent 4 Bay Pouch for up to 4 blood tubes	100
AB013-100	Absorbent 6 Bay Pouch for up to 6 blood tubes	100

Specimen Bags

These handy, grip seal specimen bags comprise the main compartment plus an integral document wallet to ensure your paperwork stays with your samples. For use with appropriately tested 95kPa primary containers. These can also be used to separate multiple primary sample containers from each other.

Supplied non-sterile.



Specimen Bags

Catalogue number	Description	Pack Size
BS1422	Specimen Bag with Wallet, Plain 22x15x18cm	100
BS1422P	Specimen Bag with with Biohazard warning and Wallet, 23x15x18cm	100

Other Secondary Packaging Solutions for Air Transport

95kPa IATA Pouches

Flexible Secondary Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpecSafe® transport containers. These IATA compliant pouches can be used as the secondary packaging option when combined with a rigid outer box. In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by air.

The IATA flexible secondary pouches have undergone much more rigorous testing at both -40C and +55C to ensure they are robust enough to withstand the changes in pressure and temperature they may encounter during air transport. They include a document wallet and have a lot number.



- 95kPa pouches carry full instructions
- Pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal

95kPa IATA Pouches

Catalogue Number	Description	Pack Size
FS95-C4-100-IATA	Flexible Secondary IATA 95kPa Pouch C4	100
FS95-C5-100-IATA	Flexible Secondary IATA 95kPa Pouch C5	100

Secondary Packaging Solutions for Road Transport

95kPa ADR Pouches

Flexible Secondary 95kPa Pouches are the ideal solution for transporting sample containers where the pressure resistance is either unknown or not certified to be 95kPa compliant. They are also useful for any sample container which does not fit into any of the moulded SpeciSafe® transport containers. These ADR pouches can be used as the secondary packaging option when combined with a rigid outer box. The rigid outer can be an individual one, or a hospital courier transport box designed to hold several samples.

In this way the pouches can be used to meet the UN3373 regulations P650 packaging instruction for transport of category B biological samples by road.



- 95kPa pouches carry full instructions
- Areas to write sender and recipient details
- Check boxes for temperature requirements
- Unique sequential barcoded number for easy package recognition
- C5 and C4 pouches have a document wallet on the reverse side
- For security, the flexible secondary pouches include a tamper evident seal
- Pouches can be purchased on their own or with appropriately sized absorbent in various pack sizes

95kPa ADR Pouches		
Catalogue Number	Description	Pack Size
FS95-C3	Flexible Secondary 95kPa Pouch C3	250
FS95-C3-100	Flexible Secondary 95kPa Pouch C3	100
FS95-C4	Flexible Secondary 95kPa Pouch C4	500
FS95-C4-100	Flexible Secondary 95kPa Pouch C4	100
FS95-C5	Flexible Secondary 95kPa Pouch C5	1000
FS95-C5-100	Flexible Secondary 95kPa Pouch C5	100

95kPa ADR Pouches with Absorbent

For added convenience these pouches come complete with the appropriately sized absorbent sheet.



95kPa ADR Pouches with Absorbent		
Catalogue Number	Description	Pack Size
FS95-C3A-100	Flexible Secondary 95kPa C3 200ml Absorbent	100
FS95-C4A-100	Flexible Secondary 95kPa C4 100ml Absorbent	100
FS95-C4A-500	Flexible Secondary 95kPa C4 100ml Absorbent	500
FS95-C5A-100	Flexible Secondary 95kPa C5 50ml Absorbent	100
FS95-C5A-1000	Flexible Secondary 95kPa C5 50ml Absorbent	1000

Sample Collection & UN3373 Packaging

Outer Packaging Solutions for Air or Road Transport

Labels and Seals

Labels can be purchased to add to your own packaging solutions which comply with the UN3373 regulations. Save time and effort with labels directly from a roll. Also available is the tamper evident security seal. This has a special adhesive to ensure it cannot be removed without being torn so it becomes immediately obvious if the package has been previously opened.

Labels and Seals

Catalogue Number	Description	Pack Size
LB001	Security Seal	1000
LB002	UN3373 Label Small 50mm x 50mm	1000
LB003	UN3373 Label Large 100mm x 100mm	1000



Medical Collection Containers

The MedDXTAINER Medical Collection Container is a popular choice with medical couriers and hospital transport. Used for the collection of multiple samples from off-site clinics and laboratories, this ABS rigid plastic carrier can be stacked and locked, enabling three or four units to be carried together. Regulatory compliant markings are visible on each container.

The medical collection container is regulatory marked and should be used in conjunction with a secondary packaging. If primaries are not 95kPa we advise the use of the 95kPa pouches to ensure compliance.

A range of additional options are available including shoulder straps, trolley, security components and EPP insulated liners for refrigerated shipments. Please enquire for details.

Rigid Outer Boxes

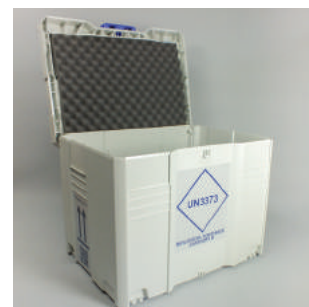


Use these boxes when you need to tailor the packaging to exactly suit your needs. All boxes are supplied flat packed to minimise storage requirements and have full instructions for assembly. They can be used together with SpeciSafe® as well as with 95kPa pouches for either air or road transport.

The temperature protected shipping boxes are ideal for keeping samples cool during overnight transport. Quick and easy to use simply add the 300g frozen gel pack to the bottom of the pouch, add your samples in their secondary packaging, then the frozen second 400g gel pack. Fold the insulated liner and seal with the adhesive strip. Close the box and it's ready for shipment.

Rigid Outer Boxes

Catalogue Number	Description	Pack Size
RO-LL1	Rigid Box Dimensions: 192 x 147 x 24mm	35
RO-200G	Rigid Box Dimensions: 194 x 125 x 43mm	35
RO-330G	Rigid Box Dimensions: 194 x 125 x 68mm	35
RO-500G	Rigid Box Dimensions: 194 x 125 x 102mm	30
RO-1K	Rigid Box Dimensions: 251 x 194 x 102mm	30
TP-013S-10	Temperature Protected Shipping Box 210 x 160 x 100mm	10
TP-013S-100	Temperature Protected Shipping Box 210 x 160 x 100mm	100



Medical Collection Containers

Catalogue Number	Description	Pack Size
MDXT-MINI3	MedDXTAINER MINI 3 Medical Collection Container Dimensions: 142 x 265 x 171mm	Each
MDXT3I	MedDXTAINER 3 Insulated Medical Collection Container Dimensions: 395 x 295 x 210mm	Each
MDXT-4	MedDXTAINER 4 Medical Collection Container Dimensions: 395 x 295 x 315mm	Each
MDXT4I	MedDXTAINER 4 Insulated Medical Collection Container Dimensions: 395 x 295 x 315mm	Each
MDXT-5	MedDXTAINER 5 Medical Collection Container Dimensions: 395 x 295 x 420mm	Each
MDXT5I	MedDXTAINER 5 Insulated Medical Collection Container Dimensions: 395 x 295 x 420mm	Each
MDXTI-DIV	Insulated Dividers for Medical Collection Container	2

Outer Packaging Solutions for Road Transport

Mailing Bags and Envelopes

When a 95kPa primary container is used with SpecSafe® secondary packaging, the SpecSafe meets the “rigid” requirements of the UN3373 regulations, hence only an outer flexible envelope is required to transport items by road. These flexible envelopes are made from lightweight polyethylene and used together with SpecSafe can help to minimise postage costs, enabling many sample packages to be mailed at large letter rather than parcel rates.

Mailing Bags and Envelopes

Catalogue Number	Description	Pack Size
SH1000	UN3373 Labelled White Polyethylene C5 Size Envelopes	500
SH1010	UN3373 Labelled White Polyethylene C5 Size Envelopes	100
FO013-500	UN3373 Labelled White Polyethylene C4 Size Envelopes	500
FO013-100	UN3373 Labelled White Polyethylene C4 Size Envelopes	100



Off-the-Shelf or Customised for You

Combining SpecSafe packaging with the primary sample containers and UN3373 labelled envelopes provides a convenient and complete solution. SpecSafe and Envelopes can even be customised (except SH1200) with labels to include your required address and unique Royal Mail business reply reference. Ideal for clinical trials packs etc. Contact us to discuss your needs and obtain a quotation.

Complete Kits for Sample Collection and Transport

Complete Mailing Systems for Road Transport

These convenient sample transport complete systems make UN3373 compliance simple. They contain absorbent material, a 95kPa pressure tested secondary pouch, a rigid outer box and a security seal. They can accommodate all types of primary sample container. Use when your primary doesn't fit into any of the SpecSafe® secondary sample transport clamshells, or when your primary is not certified 95kPa pressure resistant.

Available in a range of sizes, with an option for an insulated pack, simply pick the one which matches your requirements best. These sample collection kits are supplied flat packed to minimise storage requirements.



Complete Mailing Systems

Catalogue Number	Description	Box Size	Pouch Size	Absorbent Size	Additional Items	Pack Size
RF95-LL1	Rigid Flexible 95 LL1	192 x 147 x 24mm	C5 150 x 205mm	50ml 75 x 125mm	Security Seal	25
RF95-200G	Rigid Flexible 95 200G	194 x 125 x 43mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-330G	Rigid Flexible 95 330G	194 x 125 x 68mm	C5 150 x 205mm	100ml 125 x 150mm	Security Seal	25
RF95-500G	Rigid Flexible 95 500G	194 x 125 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25
RF95-1K	Rigid Flexible 95 1K	251 x 194 x 102mm	C4 198 x 298mm	200ml 150 x 250mm	Security Seal	25

Complete Mailing Systems for Air Transport

Catalogue Number	Description	Box Size	Pouch Size	Absorbent Size	Additional Items	Pack Size
RF95-200G-IATA25	Rigid Flexible 95 200G	194 x 125 x 43mm	C5 178 x 286mm	100ml 125 x 150mm	Security Seal	25
RF95-330G-IATA25	Rigid Flexible 95 330G	194 x 125 x 68mm	C5 178 x 286mm	100ml 125 x 150mm	Security Seal	25
RF95-500G-IATA25	Rigid Flexible 95 500G	194 x 125 x 102mm	C4 264 x 368mm	200ml 150 x 250mm	Security Seal	25
RF95-1K-IATA25	Rigid Flexible 95 1K	251 x 194 x 102mm	C4 264 x 368mm	200ml 150 x 250mm	Security Seal	25

Complete Kits for Sample Collection and Transport

Tailor-Made Sample Collection & Transport Kits.

Do you collect samples from patients at home for return to a central location? Patients often find it difficult to understand the complex instructions required to ensure Dangerous Goods compliance for return of their samples. With several layers of packaging and sometimes multiple tubes and lancets, diagnostic or health screening kits can present a daunting prospect.

Samples which are incorrectly packaged may be received in a condition where they are unsuitable for testing. This can lead to samples needing to be re-taken which can be costly both financially and in terms of time.

Alpha Laboratories' bespoke sample collection and transport kits utilising the unique SpecSafe® packaging system can make this easier. Kits can be tailor made to your exact specification containing everything required for collection of the specimen, plus a simple intuitive solution for sample return. All this can be presented in a small, smart bespoke package, enhancing your company image, and minimising transportation costs.



Clinical Trials Kits

Clinical trials programmes usually require the movement of biological samples from the patient or clinic to the testing laboratory, ensuring they are collected and received at the laboratory in the best possible condition. Whether blood, urine, faeces or tissue they need to be transported in accordance to strict regulations.

We help you to consider every aspect of the process: from the sample collection experience; regulatory compliance (eg UN3373, PI650); carrier handling processes; through to sample reception.

Working with you we will design and manufacture a tailored clinical trials kit solution that will help you achieve better quality samples and higher sample return rates.

We design, manufacture and assemble kits. We also manufacture many of the different components in Clinical Trial testing kits such as SpecSafe® packs, absorbents, 95kPa pouches etc., which enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Clinical Trials Kit Requirements.



Health Screening Kits

Alpha Laboratories can provide a complete compliant medical and diagnostic sample collection and transport packaging range and support service.

Providing components, complete collection kits and fulfilment services, our solutions meet UN3373 PI650 regulations, control cost and help to increase sample return rates.

Contact us to discuss your Health Screening Kit Requirements.



Drug and Alcohol Abuse Kits

Working closely with global and independent drug and alcohol abuse testing organisations we can provide support by challenging some of the more traditional sample collection methodologies and processes.

Our solutions are designed to help you achieve the best quality samples and higher sample return rates: thus delivering a better service to your customers.

We can provide complete design, manufacturing and assembly of testing kits. We can also source many of the different components in Drug and Alcohol Abuse Screening kits, at highly competitive pricing, providing a rapid response and faster bespoke solutions where required.

We will work with you to create a tailored solution that best suits your needs.

Contact us to discuss your Drug and Alcohol Abuse Kit Requirements.



Sexual Health Kits

Working closely with the NCSP (National Chlamydia Screening Programme), our partners are continually developing the design of our sexual health kits to improve the end user experience. With the breadth of testing increasing across HIV programmes and the growing home test market our expertise in regulatory compliant medical sample collection kits is particularly relevant.

Our support enables you to free up more of your organisation's valuable resources and reduce costs.

Our smart solutions are designed with a focus on helping you achieve better quality samples and higher sample return rates: thus delivering better patient healthcare.

Alongside the design, manufacture and assembly of kits, the manufacture of many of the different components in Sexual Health Screening kits, enables us to offer highly competitive pricing, a rapid response and faster bespoke solutions where required.

Contact us to discuss your Sexual Health Kit Requirements.



Disease Control Kits

A Various Government agencies are continuously involved in disease control and eradication activities. We can plan and develop solutions ready for each stage of the disease control process, allowing us to react quickly in the required volumes for the specific challenge.

Step 1 - Contingency: Availability of the best solution developed and in stock, immediately ready for the crucial early stages of outbreak: enabling very quick response times and planned, controlled costs.

Step 2 - Outbreak: Ready with smart solutions designed to maintain the integrity of the vital initial samples during extraction, movement and reception; thus helping to ensure early detection and identification.

Step 3 - Containment: Solutions designed to address the specific challenges related to collecting and extracting samples in situations where containment is necessary.

Step 4 - Eradication and monitoring: Providing solutions to support ongoing monitoring in order to achieve the ultimate goal of eradication.

Contact us to discuss your Disease Control Kit Requirements.



Sample Collection & UN3373 Packaging

Proficiency Testing Kits

Our partner already supplies a number of world-class proficiency testing organisations with high quality solutions to ensure that test samples consistently arrive at the laboratories intact and in premium condition. The quality of our packaging is reflective of the crucial services being tested.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on helping to achieve the best quality samples and ultimately deliver better patient healthcare.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Proficiency Testing Kit Requirements.



Food and Water Testing Kits

We offer test kits and packaging systems designed to facilitate the testing of water from various sources (sewerage/water refining plants/air-conditioning systems/condensers/cooling towers) in order to prevent and control disease outbreaks. We also supply solutions to support meat plants, food retailers and laboratories in the provision and transport of samples for routine food testing to detect potential threats to public health.

Trusting us with this part of the process enables you to free up more of your organisation's valuable resources and reduce costs.

Our solutions are designed and manufactured with a focus on achieving the best quality samples and ultimately supporting improved public health.

We understand that your needs and those of your stakeholders are unique and we never try to convince you that one size fits all.

Contact us to discuss your Food and Water Testing Kit Requirements.



Kit Fulfillment

Trusting us with your regulatory compliant (eg UN3373, PI650) medical sample collection kit fulfillment process enables you to free up more of your organisation's valuable resources and reduce costs.

We understand you may have concerns about handing over your entire kit fulfillment process to an outside company. However, you can be reassured that we have the expertise, knowledge, training, quality processes and attention to detail required to provide the very best service on your behalf.

We can provide/offer various fulfilment solutions, including:

- Kit refurbishment
- Stock call-off
- Logistics and delivery services, including a Direct to Patient service

We work on your behalf to develop regulatory compliant smart solutions to address your specialist needs and help you to increase efficiency and reduce overall costs.

Contact us to discuss your Kit Fulfillment Requirements.



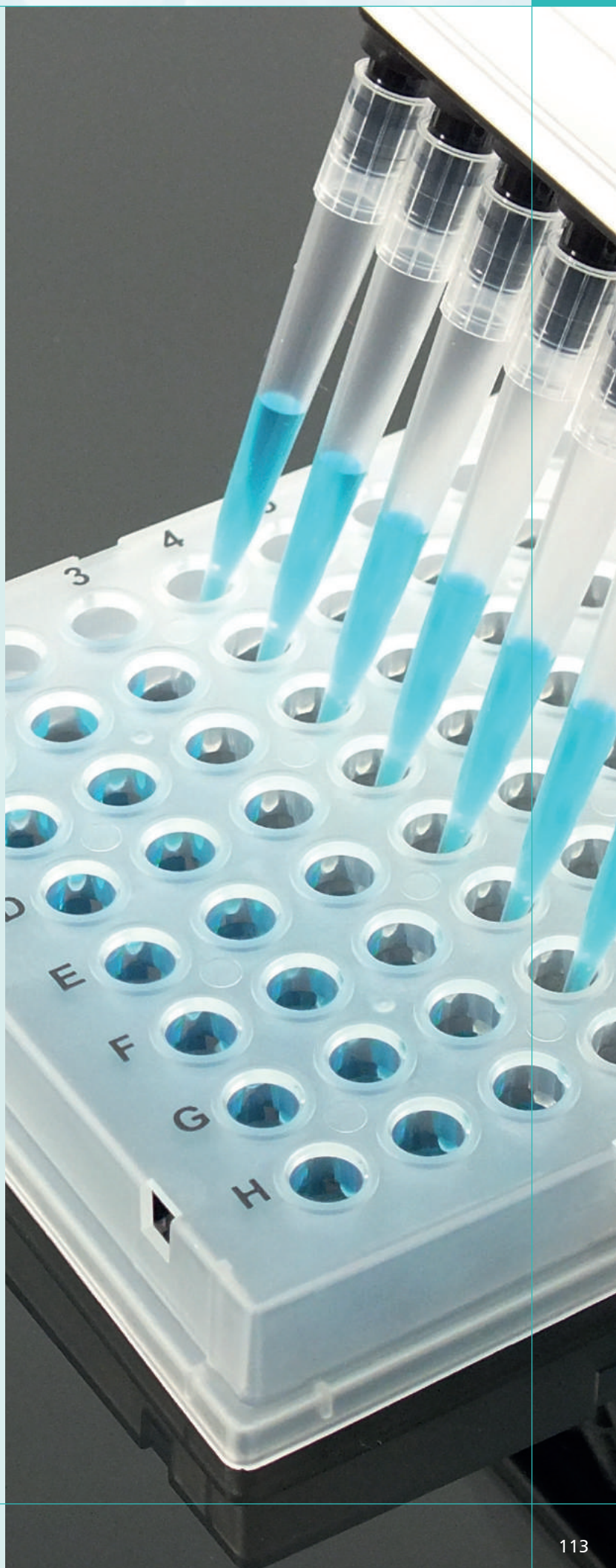
Quality for Performance

The importance of high quality PCR consumables should not be underestimated. They can have a significant effect on the reaction speed, consistency of results, robustness, product yield, fidelity and specificity of the reaction. Whether you choose individual PCR tubes, strip tubes or plates from Alpha Laboratories, you can rest assured that the ultra thin walls ensure efficient thermal transfer and inhibitor-free certification means no assay interference.

For high throughput assay or storage demands choose from 96 or 384 Well microtitre and deep Well plates or opt for organised microtubes.

Our extensive range of plate sealing options gives you everything you need for PCR, short or long term storage, manual or automation accessibility.

Contents	Page/s
PCR Tubes	114
PCR Plate Instrument Compatibility Chart	116
PCR Plates	118-120
96-Well Microtitre Plates	121
96-Well Deep Well Plates	121
Organised Microtubes	122
384-Well Microtitre and Deep Well Plates	123
Reagent Reservoirs	123
Adhesive Plate Sealing for Microplates	124-128
PCR Plate Sealing	129-134
Plate Sealing Accessories	134



PCR Tubes

Designed for optimal heat transfer and sample security, this range of 0.2ml and 0.5ml PCR tubes offers excellent performance and value.

Choose from domed or flat caps. PCR tubes are also available in a range of colours so you can colour co-ordinate samples in your lab to aid workflow.

- Designed to fit all major suppliers' instruments
- 0.2ml or 0.5ml tubes available
- Choice of caps
 - Flat caps for easy sample labelling
 - Domed caps for better heat transfer from thermal cycler lids
- Certified free from RNase, DNase, DNA, DNA Inhibitors and endotoxins



Individual 0.2ml PCR Tubes

Catalogue Number	Description	Pack Size
LW2330*	0.2ml PCR Tubes, domed caps	1000
LW2170	0.2ml PCR Tubes, flat caps	1000

*Also available in colours. Please see our website.

Individual 0.5ml PCR Tubes

Catalogue Number	Description	Pack Size
LW2175*	0.5ml PCR Tubes, flat caps	1000

*Assorted packs available, add suffix: AS=assorted.

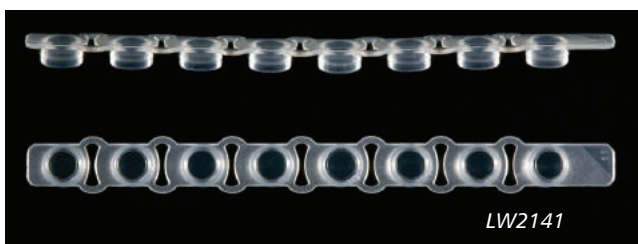
PCR Tube Strips

Our range of PCR strip tubes has been selected to bring you a comprehensive range for standard and Quantitative PCR.

With all the features of our standard PCR tubes, the strip tube range now includes strips of white tubes with individually attached optically clear caps.

The white Wells maximise reflectance for enhanced signals whilst the optically clear caps enable optimal signal transmission and detection. Optically clear caps are also available on clear strip tubes.

- Some formats can be cut into individual tubes or groups of tubes
- Available without caps for use with cap strips
- Optical, flat or domed caps available
- White tubes for enhanced signals, clear tubes for sample visibility



8- and 12-Strip Thin-Walled Tubes and Caps for PCR

Catalogue Number	Description	Pack Size
Strip tubes without caps		
LW2520	0.2ml 8-strip tubes, without caps	125
LW2161	0.2ml 12-strip tubes without caps	80 x 12
Strip tubes with separate strips of caps		
LW2335	0.2ml 8-strip tubes & 8-strip domed caps	125
LW2535	0.2ml 8-strip tubes & 8-strip flat optical caps	125
LW2340	0.2ml 12-strip tubes & 12-strip domed caps	80
Strip tube with attached hinged strip of caps		
LW2500	0.2ml 8-strip tubes & hinged 8-strip domed cap	125
LW2560	0.2ml 8-strip tubes & hinged 8-strip flat optical cap	125
Strip tubes with individually attached caps		
LW2510*	0.2ml 8-strip tubes & individual domed caps	120
LW2505	0.2ml breakable 8-strip tubes & individual flat optical caps	120
LW2570*	0.2ml 8-strip tubes & individual flat optical caps	120
LW2575	0.2ml 8-strip white tubes & individual flat optical caps	120
LW2580	0.1ml 8-strip low profile tubes & individual flat optical caps	10 x 12
Cap Strips - for use with strip tubes above and plates as shown in the compatibility chart		
LW2222	8 Strip Domed Caps, Natural	125
LW2141	0.2ml 8-Strip Caps, Optically Clear	125
LW2190	0.2ml 12-Strip Domed Caps Natural	80
LW2525	0.2ml 12-Strip Flat Optical Caps	80
Cap Strips - for use with plates as shown in the compatibility chart		
LW2905	Domed cap strip, 8, for PCR plates	125
LW2915	Flat cap strip, 8, for PCR plates	125
LW2925	Cap strip, 12, for PCR plates	125

* Also available in colours. Please see our website.

Corbett RotorGene qPCR Strip Tubes with Caps

Catalogue Number	Description	Pack Size
LW2590	0.1ml qPCR tubes with caps 4 strip	250
LW2590-BULK	0.1ml qPCR tubes with caps 4 strip	10 x 250

Microplates and PCR Consumables

Thermal Cycler Plate Compatibility Chart

Thermal Cycler Make	Thermal Cycler Model	Plate	LW2902 (Unskirted)	LW2200 (Unskirted)	LW2910 (Unskirted, Low profile)	LW2203 (Unskirted, Low profile)	LW2206 (Chimney top)	LW2940 (Chimney top, Semi-skirted)	LW2950 (Raised Rim, Semi-skirted)	LW2213 (Raised Rim, Semi-skirted)
Alpha Laboratories (Bioer)	GeneTouch / GenePro / XP 96 Well				✓	✓				
	GeneTouch / GenePro / XP 384 Well									
	GeneMax				✓	✓				
	LifeECO / LifeTouch / LifePro				✓	✓				
Analytic Jena	SpeedCycler® 96 LP/LPR				✓	✓				
	SpeedCycler® 96 SP/SPR	✓	✓							
	Flexcyder 96 / 96G	✓	✓			✓	✓			
Applied Biosystems Life Technologies Thermo Fisher	2720 / Proflex								✓	✓
	GeneAmp® 9700								✓	✓
	SimpliAmp™								✓	✓
	Veriti® FAST / Veriti® Dx Fast									
	Veriti® / Veriti® Dx								✓	✓
Arktik	Arktik				✓	✓				
	Biometra				✓	✓				
Bio-Rad (MJ Research)	TProfessional Standard SL				✓	✓				
	TProfessional Std / Basic / Advanced				✓	✓				
	TRobot									
	TGradient	✓	✓		✓	✓				
	C1000/S1000 Touch Fast	✓	✓		✓	✓				
	C1000 / S1000 Deep Well	✓	✓		✓	✓				
	C1000 / S1000 Touch 384									
	DNA Engine 96 Well / PTC-100	✓	✓		✓	✓		✓		
	DNA Engine 384 Well									
	iCycler™	✓	✓			✓				
	MyCycler	✓	✓			✓				
	Mini Gradient		✓		✓					
Corbett	GeneCycler		✓		✓	✓				✓
	Personal		✓							
Eppendorf	PalmCycler 96	✓			✓			✓		
	PalmCycler 384									
G-Storm/VWR	Mastercycler / Pro / Gradient				✓	✓				
	Mastercycler 384 / Pro 384									
	Mastercycler Nexus	✓	✓		✓	✓		✓		✓
MWG/Peqlab	Mastercycler ep	✓	✓		✓	✓				
	GStorm 96 Well	✓	✓		✓	✓		✓		
Stratagene	GStorm 384 Well									
	Primus 96 / Peqstar 96	✓	✓		✓	✓				✓
Techne	Primus 384 / Peqstar 384									
	SureCycler 8800 96 Well	✓	✓			✓		✓		
	SureCycler 8800 384 Well									
Techne	RoboCycler 96	✓	✓		✓			✓		
	RoboCycler Gradient	✓	✓		✓	✓		✓		✓
	Prime Combi	✓	✓		✓	✓		✓		
	Prime 96 / Elite 96 / EliteSAT	✓	✓		✓	✓		✓		
	Prime Elite 384 / 384 / EliteSAT									
	Touchgene / Cyclogene	✓	✓		✓	✓		✓		✓
	Genius / Genius Quad	✓	✓		✓	✓		✓		✓
	Genius TC412	✓	✓		✓	✓				✓
	Flexigene	✓	✓							✓
	Touchgene X / TC512	✓	✓		✓					✓

qPCR Plate Compatibility Chart

Alpha Labs (Bioer)	LineGene 96 series		✓							
Applied Biosystems	7000								✓	✓
Life Technologies	7300 / 7500								✓	✓
Thermo Fisher	7900 HT / Quantstudio (DX) / Via7 (DX)								✓	✓
	7500 FAST / FAST DX / 7900 HT FAST									
	Step One plus / Via7 FAST / DX FAST									
Biometra	TOptical				✓	✓				
Bio Rad (MJ Research)	CFX 96 Touch / CFX Connect				✓	✓				
	CFX 96 Touch Deep Well	✓	✓		✓	✓				
	CFX 384 Touch									
	iCycler iQ® / iQ™ 5 / MyiQ2™ / MyiQ™ 2									
	Chromo4™ System				✓	✓				
	DNA Engine Opticon® 2 / Mini Opticon	✓	✓		✓	✓				
Eppendorf	Mastercycler ep Realplex® (4)									
Roche	Lightcycler 96 / 480									
Stratagene	Mx3000P / Mx3005P	✓	✓				✓	✓		
Techne	PrimeQ	✓	✓		✓	✓	✓	✓		

Sequencer Plate Compatibility Chart

Applied Biosystems	310								✓	✓
Life Technologies	3130 / XL								✓	✓
Thermo Fisher	3500 / XL / XL DX / DX								✓	✓
	3730 / XL								✓	✓
Transgenomic	Wave 3500									

Sealing Options

	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films
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This chart is intended as a guide only

Thermal Cycler Plate Compatibility Chart

LW2970 (Semi-skirted)	LW2214 (Semi-skirted, FAST)	LW2230W (Semi-skirted, Low Profile, Lightcycler)	LW2210 (Semi-skirted, Low Profile)	LW2215 (Semi- skirted, Straight Lines)	LW2920 (Skirted)	LW2216 (Skirted)	LW2960 (384 Well)	LW2220 (384 Well, Lightcycler)	LW225W (384 Well, ABI type)	Plate	Thermal Cycler Model	Thermal Cycler Make
		✓	✓		✓	✓	✓	✓	✓		GeneTouch / GenePro / XP 96 Well	Alpha Laboratories (Bioer)
		✓	✓		✓	✓					GeneTouch / GenePro / XP 384 Well	
		✓	✓		✓	✓					GeneMax	
		✓	✓			✓					LifeECO / LifeTouch / LifePro	Analytic Jena
✓				✓							SpeedCycler ² 96 LP/LPR	
✓				✓							SpeedCycler ² 96 SP/SPR	
				✓							Flexcycler 96 / 96G	Applied Biosystems Life Technologies Thermo Fisher
	✓			✓							2720 / Proflex	
				✓							GeneAmp [®] 9700	
				✓							SimpliAmp [™]	Arktik
		✓	✓				✓		✓		Veriti [®] FAST / Veriti [®] Dx Fast	
		✓	✓								Veriti [®] / Veriti [®] Dx	
	✓						✓		✓		Veriti [®] 384	Biometra
		✓	✓		✓	✓		✓	✓		Arktik	
		✓	✓		✓	✓					TProfessional Standard SL	
		✓	✓		✓	✓					TProfessional Std / Basic / Advanced	Bio-Rad (MJ Research)
✓				✓	✓	✓					TRobot	
		✓	✓		✓	✓					TGradient	
		✓	✓	✓	✓	✓					C1000 / S1000 Touch Fast	Eppendorf
		✓	✓	✓	✓	✓		✓	✓		C1000 / S1000 Deep Well	
		✓	✓	✓	✓	✓		✓	✓		C1000 / S1000 Touch 384	
				✓	✓	✓	✓	✓	✓		DNA Engine 96 Well / PTC-100	Corbett
				✓		✓					DNA Engine 384 Well	
				✓		✓					iCycler [™]	
											MyCycler	Eppendorf
✓											Mini Gradient	
				✓							GeneCycler	
					✓						Personal	Stratagene
											PalmCycler 96	
		✓	✓		✓	✓		✓			PalmCycler 384	
											Mastercycler / Pro / Gradient	G-Storm/VWR
	✓	✓	✓	✓	✓	✓	✓	✓	✓		Mastercycler 384 / Pro 384	
✓		✓	✓	✓	✓	✓					Mastercycler Nexus	
✓		✓	✓	✓	✓	✓					Mastercycler ep	MWG/Peqlab
✓			✓	✓	✓	✓		✓	✓		GStorm 96 Well	
			✓	✓	✓	✓		✓	✓		GStorm 384 Well	
							✓	✓	✓		Primus 96 / Pqstar 96	Stratagene
✓				✓			✓	✓	✓		Primus 384 / Pqstar 384	
											SureCycler 8800 96 Well	
							✓	✓	✓		SureCycler 8800 384 Well	Techne
✓				✓	✓	✓					RoboCycler 96	
✓		✓	✓	✓	✓	✓	✓	✓	✓		RoboCycler Gradient	
✓		✓	✓	✓	✓	✓					Prime Combi	Thermo Fisher
✓		✓	✓	✓	✓	✓	✓	✓	✓		Prime 96 / Elite 96 / EliteSAT	
											Prime Elite 384 / 384 / EliteSAT	
✓			✓	✓	✓	✓					Touchgene / Cyclogene	Transgenomic
✓	✓		✓	✓	✓	✓					Genius / Genius Quad	
✓				✓	✓	✓					Genius TC412	
✓	✓			✓	✓	✓	✓	✓	✓		Flexigene	Bioer
					✓	✓					Touchgene X / TC512	

qPCR Plate Compatibility Chart

										LineGene 96 series	Alpha Labs (Bioer)
										7000	Applied Biosystems Life Technologies Thermo Fisher
	✓			✓						7300 / 7500	
	✓									7900 HT / Quantstudio (DX) / ViiA7 (DX)	
										7500 FAST / FAST DX / 7900 HT FAST	Biometra
										Step One plus / ViiA7 FAST / DX FAST	
										Optical	
✓		✓	✓	✓	✓	✓				CFX 96 Touch / CFX Connect	Bio Rad (MJ Research)
✓		✓	✓	✓	✓	✓				CFX 96 Touch Deep Well	
							✓	✓	✓	CFX 384 Touch	
										iCycler iQ [®] / iQ [™] 5 / MyiQ2 [™] / MyiQ [™] 2	Eppendorf
										Chromo4 [™] System	
										DNA Engine Opticon [®] 2 / Mini Opticon	
		✓		✓		✓				Mastercycler ep Realplex [®] (4)	Roche
✓		✓		✓		✓		✓		Lightcycler 96 / 480	
✓		✓		✓		✓				Mx3000P / Mx3005P	
										PrimeQ	Stratagene

Sequencer Plate Compatibility Chart

	✓									310	Applied Biosystems
	✓									3130 / XL	Life Technologies
	✓									3500 / XL / XL DX / DX	Thermo Fisher
										3730 / XL	Transgenomic
					✓	✓				Wave 3500	

Sealing Options

LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	LW2905, LW2915, LW2925, foils & films	LW2141, LW2190, LW2222, LW2525, foils & films	foils & films	foils & films	Foils & films	
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This chart is intended as a guide only

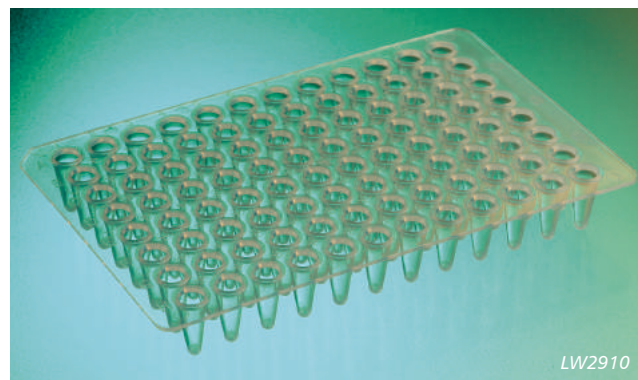
PCR Plates

Alpha Laboratories' range of PCR plates offers you a wide choice for compatibility with most Thermal Cyclers currently available. The 96 and 384-Well plates are thin walled with excellent thermal transfer for reproducible results and maximum yields.

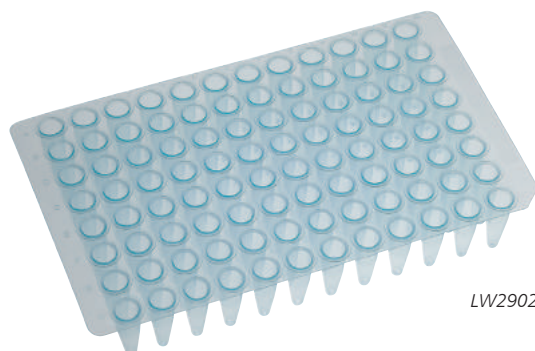
All plates have a low rim around each Well, minimising cross-contamination, and can be sealed using our adhesive films and foils, or strip caps. They are also alphanumeric Well-indexed and conform to standard SBS footprints.

All PCR plates are guaranteed and certified free from RNase, DNase, DNA and Pyrogens. Supplied in re-sealable bags.

For specific instrument compatibility of Alpha plates – please refer to the table on the previous page.



LW2910



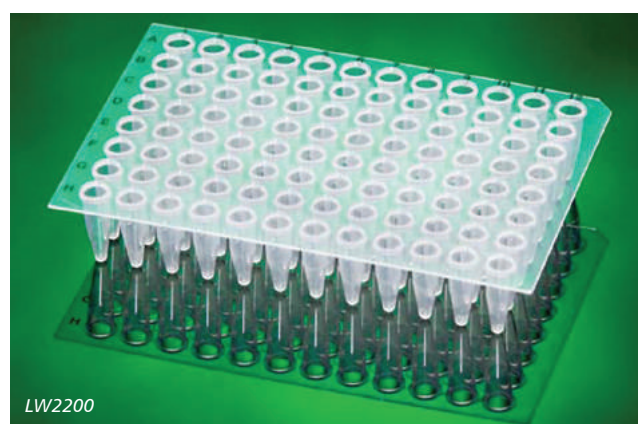
LW2902

Amplify Small PCR Plates

Catalogue Number	Description	Pack Size
LW2901	Amplify non-skirted 48-Well PCR Plate	50
LW2900	Amplify non-skirted 24-Well PCR Plate	50

Amplify Non-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2902-10	Amplify PCR Plate	H12	10
LW2902	Amplify PCR Plate	H12	100
LW2910-10	Amplify PCR Plate, low profile	A1	10
LW2910	Amplify PCR Plate, low profile	A1	100
LW2200-10	PCR Plate, black alphanumeric	A12	10
LW2200	PCR Plate, black alphanumeric	A12	100
LW2203-20	PCR Plate, low profile, black alphanumeric	H12	20
LW2203	PCR Plate, low profile, black alphanumeric	H12	100
LW2206-10	Chimney top PCR Plate, black alphanumeric	H12	10
LW2206	Chimney top PCR Plate, black alphanumeric	H12	100



LW2200



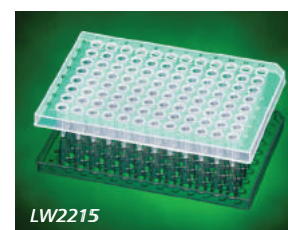
LW2203



LW2214

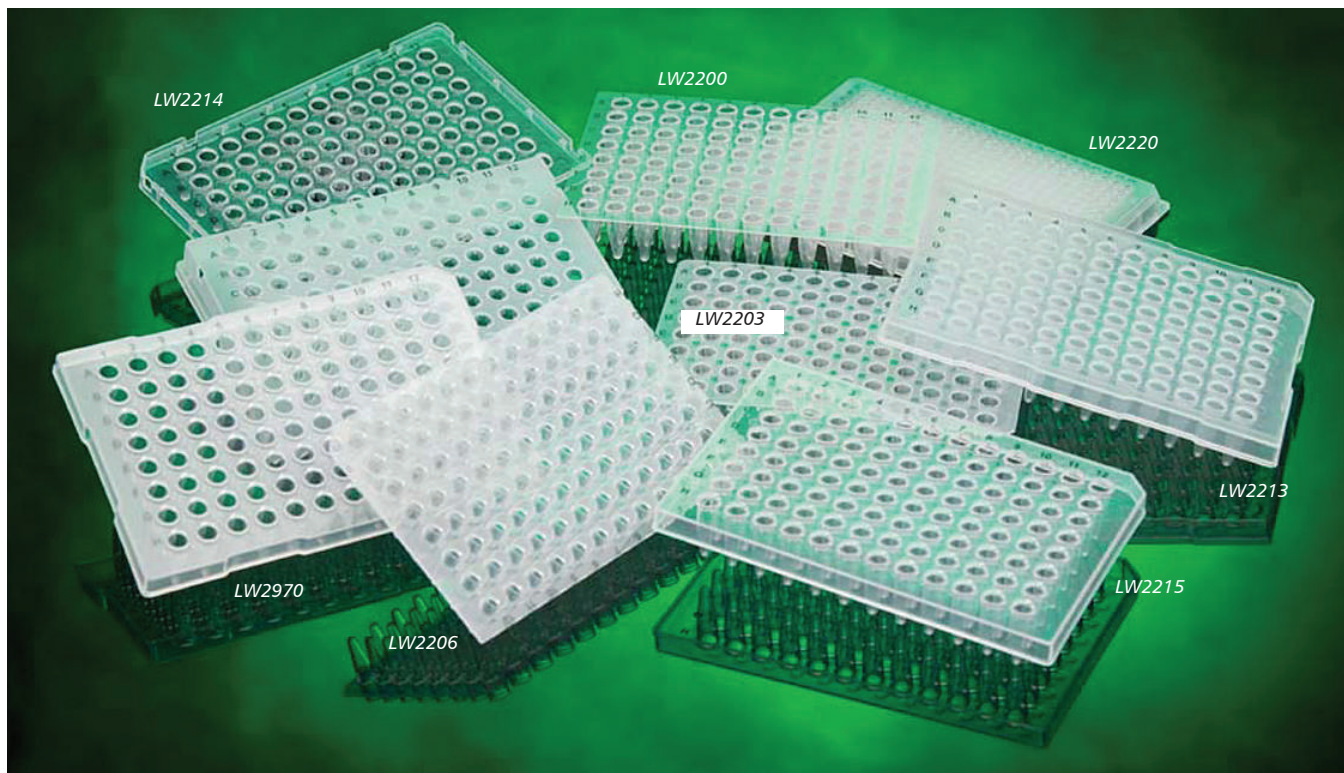


LW2206



LW2215

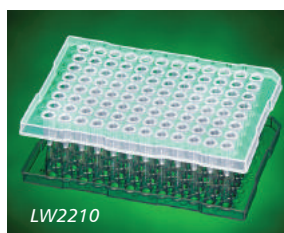
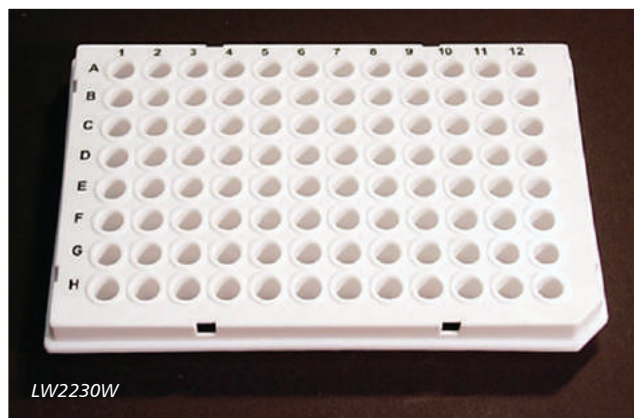
PCR Plates



For barcoded and 384-Well plates, see next page.

Amplify Semi-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2940-10	Amplify PCR Plate (Corning type)	A1	10
LW2940	Amplify PCR Plate (Corning type)	A1	100
LW2950-10	Amplify PCR Plate (Perkin Elmer type)	A12	10
LW2950	Amplify PCR Plate (Perkin Elmer type)	A12	100
LW2213-10	Raised perimeter, PCR Plate, black alphanumeric	A12	10
LW2213	Raised perimeter, PCR Plate, black alphanumeric	A12	100
LW2970-10	Amplify PCR Plate, black alphanumeric	A12	10
LW2970	Amplify PCR Plate, black alphanumeric	A12	100
LW2210-10	Amplify PCR Plate, low profile, black alphanumeric	A12	10
LW2210	Amplify PCR Plate, low profile, black alphanumeric	A12	100
LW2214-10	FAST PCR Plate, black alphanumeric	A1	10
LW2214	FAST PCR Plate, black alphanumeric	A1	100
LW2215-10	Straight-sided PCR Plate, black alphanumeric	A12	10
LW2215	Straight-sided PCR Plate, black alphanumeric	A12	100
LW2230W-10	PCR Plate, low profile, white, black alphanumeric	H12	10
LW2230W	PCR Plate, low profile, white, black alphanumeric	H12	100



Amplify Full-Skirted 96-Well PCR Plates

Catalogue Number	Description	Corner Cut	Pack Size
LW2920-10	Amplify PCR Plate	A1	10
LW2920	Amplify PCR Plate	A1	100
LW2216-10	PCR Plate, low profile natural black alphanumeric	A12	10
LW2216	PCR Plate, low profile natural black alphanumeric	A12	100

Barcoded PCR Plates

Standard Labelled Plates

Barcode labels



- Label size approximately 5 x 50mm

Coding Code 128

Incorporated in the code is a non-repeating numeric sequence in both barcode and human readable format.

Note: as the code is guaranteed non-repeating, it is possible that any case of plates purchased may not contain a continuous, unbroken, sequence of labels.

96-Well Barcoded Plates

Catalogue Number	Description	Barcode Position	Pack Size
LW2215-BAR	Semi-skirted, "straight side", natural	H1:H12	100
LW2230W-BAR	Semi-skirted, low profile, "Lightcycler-type", white	A1:A12	100

Custom-Labelled Plates

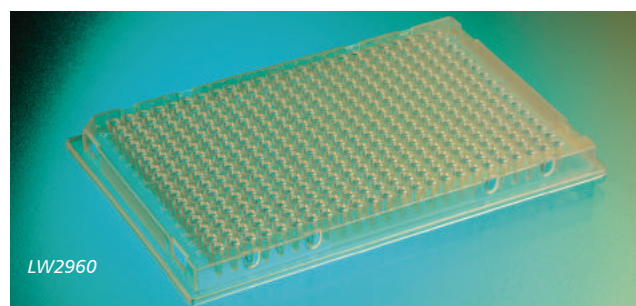
Other PCR and Deep Well plates can be barcode labelled or additional barcodes can be added to the plates detailed above.

Please contact your Alpha Laboratories Account Manager to discuss your requirements.

All custom orders have a minimum of 2,000 plates/parts per order.

PCR Plates

Amplify 384-Well Skirted PCR Plates



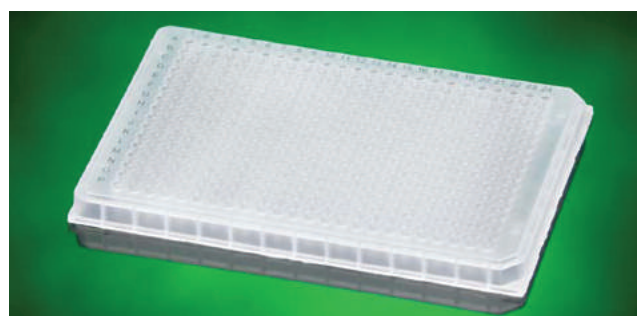
Our 384-Well plates have been specifically designed for high throughput PCR with a 40µl capacity for reaction volumes of 2 - 30µl. Also available as opaque white for luminescence based procedures.

- Skirted for bar-coding or labelling
- Can be sealed with adhesive foils or films

Amplify 384-Well PCR Plates

Catalogue Number	Description	Pack Size
LW2960	Amplify 384-Well skirted PCR Plate, natural	100 (10x10)
LW2922W	Amplify 384-Well skirted PCR Plate, white	100 (10x10)

Amplify 384-Well PCR Plates for LightCycler® and ABI Instruments



This fully skirted 384-Well PCR plate is ideally suited for your critical high-throughput procedures. Each Well has a nominal working volume of 25µl. Alphanumeric indexing is printed in black for easy identification of samples.

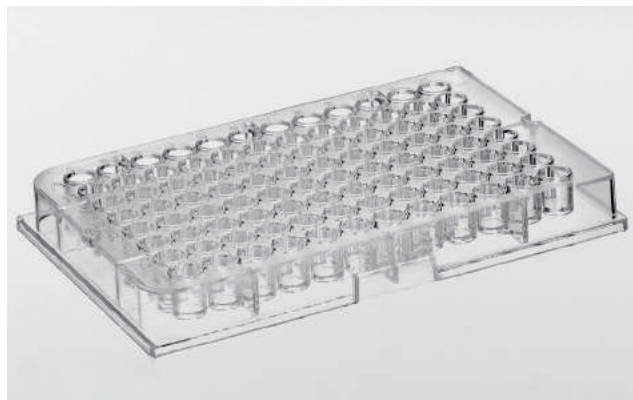
ABI (Life Technologies) type plate has an orientation cut at position A24. For LightCycler® type plates orientation cuts are at A24 and P24.

Amplify 384-Well PCR Plate

Catalogue Number	Description	Pack Size
LW2225	384-Well white PCR Plate, ABI type	10 x 10
LW2220	384-Well PCR Plate, LightCycler-type	100 (10x10)
LW2220W	384-Well white PCR Plate, LightCycler-type	10 x 10

96-Well Microtitre Plates

Alpha's shallow, 96-Well, microtitre plates incorporate a moulded alphanumeric index with rounded corners at positions A1 and H1 for easy orientation. They are manufactured from uncoated, transparent polystyrene. The static-free plates also feature raised Well rims to prevent cross-contamination. They are available sterile or non-sterile in a choice of U, V or Flat bottom Wells to suit your application. Microtitre plate lids are also available, free from markings for optimal visibility, with a raised rim for convenient stacking of plates. Footprint 128 x 86mm.



96-Well Microtitre Plates		
Catalogue Number	Description	Pack Size
MP3020	96-U-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3030	96-U-Well Microplate, Polystyrene, Sterile	20x5
MP3040	96-V-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3050	96-V-Well Microplate, Polystyrene, Sterile	20x5
MP3060	96-Flat-Well Microplate, Polystyrene, Non-Sterile	20x5
MP3070	96-Flat-Well Microplate, Polystyrene, Sterile	20x5
MP3080	Lid for Microplates, Polystyrene, Non-Sterile	20x5
MP3090	Lid for Microplates, Polystyrene, Sterile	20x5

- **U-Well** – Round bottom Wells improve washing efficiency and the absence of sharp corners makes these ideal for agglutination tests. Well capacity 300µl.
- **V-Well** – Conical bottom Wells are a must when optimal sample recovery is a priority. Well capacity 230µl.
- **F-Well** – Flat bottom Wells are ideal when making optical measurements such as colorimetric determinations or microscopy work. Well capacity 350µl.

96-Well Deep Well Plates

Deep Well Plates – Round Aperture

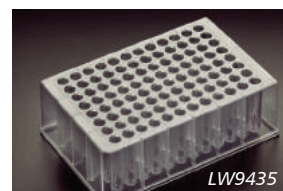
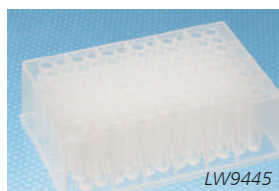
Deep Well microtitre plates are perfect for high throughput screening. Conforming to the SBS footprint these plates are compatible with leading robotic sample processors, automated liquid handling systems and 8- or 12-channel pipettes.

Suitable for numerous applications including combinatorial chemistry, cell or bacterial culture, DNA sequencing or library storage.

96-Well Deep Well Plates – Round Aperture		
Catalogue Number	Description	Pack Size
LW9435	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Non-Sterile	4 x 6
LW9436	96-Deep Well Microplate, 1.2ml, Polystyrene, Round Bottom, Sterile	4 x 6
LW9445	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Non-Sterile	4 x 6
LW9446	96-Deep Well Microplate, 1.2ml, Polypropylene, Round Bottom, Sterile	4 x 6
LW9455	Pierceable Mat Cover, Non-Sterile for 1.2ml Plates	24
LW9456	Pierceable Mat Cover, Sterile for 1.2ml Plates	24

These plates have round aperture Wells, ø6.7mm, with a U-shaped bottom and incorporate a moulded alphanumeric index and a cut corner at position H1 for easy orientation. Well capacity is 1.2ml uncapped (when capped with the polyolefin and elastomer sealing mat the capacity will be 1.0ml). Available in transparent polystyrene (frosted Well bottoms) with a centrifuge rating of 3000g (when using a microtitre plate rotor) or opaque, DMSO resistant polypropylene with a rating of 6000g. Polypropylene plates are ideal for cold storage with a temperature range of -196C to +121C (sealing mats have a range of -80C to +80C). Both plates and pierceable sealing mats are available in sterile or non-sterile format.

**SBS
footprint**



Deep Well Plates – Square Aperture

Alpha's square, 8.3mm aperture Deep Well plates are manufactured from tough, DMSO-resistant polypropylene. Suitable for use with sealing films or autoclavable, silicone sealing mats.

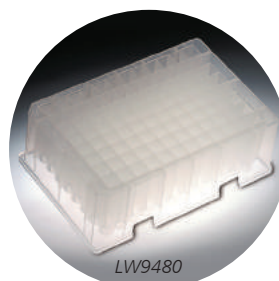
**SBS
footprint**

The round bottom plates have a Well capacity of 2.2ml, moulded alphanumeric index and orientation notches at positions A1 and H1. The plates with conical bottom Wells are available in a choice of 1.2ml or 2.2ml Well capacity. These plates have a printed alphanumeric index and single orientation notch at H1.

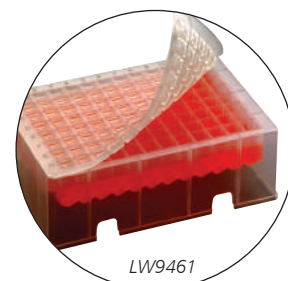


LW9460

96-Well Deep Well Plates – Square Aperture		
Catalogue Number	Description	Pack Size
LW9480	96-Well Deep Well Plate, 2.2ml, Polypropylene, Round Bottom, Non-Sterile	24
LW9460	96-Well Deep Well Plate, 2.2ml, Polypropylene, Conical Bottom, Non-Sterile	5
LW9461	96-Well Deep Well Plate, 1.2ml, Polypropylene, Conical Bottom, Non-Sterile	10

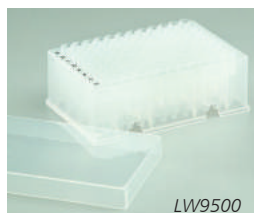


LW9480

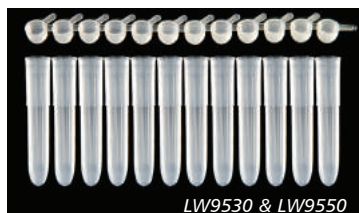


LW9461

Organised Microtubes



LW9500



LW9530 & LW9550

A great alternative to Deep Well Plates, Alpha's racked microtubes conform to the SBS footprint and are just as versatile. Available in 8- or 12-tube strips or individual tube formats, organised microtubes can offer greater flexibility when you need to access a single sample or sample set. These autoclavable, lidded racks and tubes are manufactured from tough polypropylene and perfectly suited to cold storage. Racked tube strips feature a printed alphanumeric index on the rack, a clear lid free from markings (a cardboard index card is provided) and orientation notches at position H1.

**SBS
footprint**

The individual, racked tubes are supplied in a rack with a moulded alphanumeric index and a frosted lid. Refill tubes are available. Compatible plug cap strips are available in both 8- and 12-strip formats, manufactured from non-autoclavable, low-density polyethylene; both sterile and non-sterile options are offered. Each cap features an individual tab to aid removal and strips can be easily cut into individual caps if required.



QS845 and QS847

Organised Tubes and Caps

Catalogue Number	Description	Pack Size
Racked Tubes - Strips		
LW9500	1.2ml Organised Tubes, Racked 12 strips of 8 NS	10 x 96
LW9505	1.2ml Organised Tubes, Racked 12 strips of 8 tubes, Sterile	10 x 96
LW9520	1.2ml Organised Tubes, Racked 8 strips of 12 NS	10 x 96
LW9510	1.2ml Tubes in Strips of 8 Tubes Refill NS	125 x 8
LW9530	1.2ml Tubes in Strips of 12 Tubes Refill NS	80 x 12
Racked Tubes - Individual		
QS845TP	1.2ml Microtube Rack with 96 Individual Tubes, Non-Sterile	10 x 96
QS845TPS	1.2ml Microtube Rack with 96 Individual Tubes, Sterile	10 x 96
QS845	1.2ml Tubes, Loose	1000
Cap Strips		
QS847	Strips of 8 Caps, Non-Sterile	120 x 8
QS847S	Strips of 8 Caps, Sterile	120 x 8
LW9550	Strip of 12 Caps, Non-Sterile	80 x 12
LW9540	Strip of 8 Caps, Non-Sterile	125 x 8
LW9555	Strip of 12 Caps, Sterile	80 x 12

384-Well Microplates and Deep Well Plates



LW9600

384-Well Plates are perfect for compound storage and handling of biological samples. The rounded Well bottom facilitates aspiration. Suitable for use with DMSO and biological buffers.



- Suitable for DMSO
- Conforms to SBS standards
- Autoclavable



LW9602 and LW9601

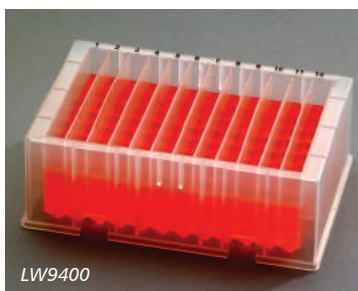
384-Well Microplates

Catalogue Number	Description	Pack Size
LW9600	120µl 384-Well Plate, Polypropylene	4 x 6
LW9601	200µl 384-Deep Well Plate, Polypropylene	4 x 6
LW9602	400µl 384-Deep Well Plate, Polypropylene	4 x 6

Reagent Reservoirs

Our 12-Channel reservoir is manufactured from durable, polypropylene and conforms to SBS footprint so it is ideal for use with automated workstations whilst equally suited to use with a multichannel pipette. Each of the twelve reservoirs is clearly numbered and has a generous capacity of 22ml. The base of each reservoir channel is V-shaped to minimise reagent wastage. These reservoirs can be easily covered with sealing films or the square section sealing mat LW9465.

Our single Well re-useable reagent troughs are manufactured from durable, chemical resistant polypropylene and may be autoclaved. Suitable for use with both 8- and 12-channel pipettes, the V-shaped basins are designed to minimise reagent waste. These un-lidded troughs have a capacity of 120ml and stack neatly for compact storage when not in use.



LW9400



783-500

Our lidded, 175ml reservoir has moulded volume graduations and a reinforced base to prevent wobbles on the bench and to avoid spillage. The reservoir lid is attached with ball and socket hinges and can be easily removed for convenience when the reservoir is in use. The latched lid provides a secure closure for storing reagents and the perimeter ridge on the lid makes stacking reservoirs easy and prevents them from sliding.



LW9570

Reagent Reservoirs

Catalogue Number	Description	Pack Size
LW9400	12-Channel Reservoir, Polypropylene	20
783-500	120ml Reagent Trough	16
LW9570	175ml Lidded Reservoir	10

Microplates and PCR Consumables

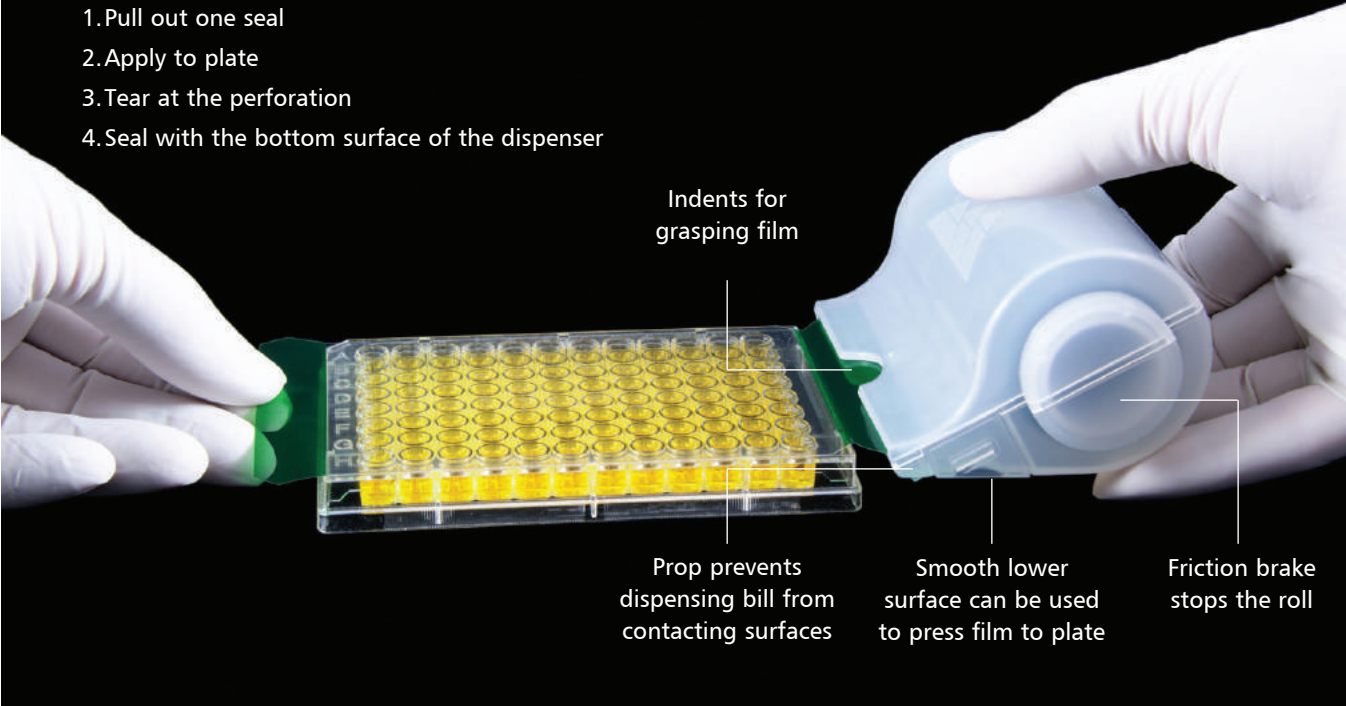
Adhesive Plate Seals for Microtitre and Deep Well Plates

SealMate™ System for Adhesive Microplate-Sealing Films

“a revolutionary way of applying sealing films to microplates”

It's easy!

1. Pull out one seal
2. Apply to plate
3. Tear at the perforation
4. Seal with the bottom surface of the dispenser



- Convenient, easy film application for microplates
- Three times faster than sheet films
- Inexpensive applicator
- Reduced waste; no protective backing to remove and discard
- Smooth lower surface for pressing film to the plate
- Available sterile and non-sterile

Excel Scientific's unique SealMate™ system provides a convenient new method for sealing standard-format microplates with adhesive films. The system includes a moulded polypropylene dispenser with a hinged "clamshell" design and sealing films supplied in a novel sheeted-roll configuration.

Available with SealPlate films for ELISA, EIA, and similar assays (see LW2770 on page 126) or AeraSeal films for cell and tissue culture applications (see LW2782 on page 127).

The SealMate™ dispenser provides a protective enclosure for films on the roll prior to dispensing. Individual films on the roll are delineated by non-adhesive colour bands that serve as end-tabs for positioning the films on the microplates.

Each non-adhesive band contains two perforations, the first of which, bounded by a small indent at the edges, tears easily to separate the sheet being dispensed from the next sheet on the roll. The second perforation permits the end-tab to be removed from the plate once the film has been applied.

These unique features contribute to ease and usability:

- The SealMate™ system reduces laboratory waste because the film is rolled on itself with no extra paper or plastic liner to be discarded before sealing the plate
- Each SealPlate roll contains films to cover 100 microplates
- Each AeraSeal roll contains films to cover 50 culture plates

SealMate™ System		
Catalogue Number	Description	Pack Size
LW2700	SealPlate Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of SealPlate Films	1 Kit
LW2702	SealPlate Refill Roll	2
LW2704	AeraSeal Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of AeraSeal Films	1 Kit
LW2706	AeraSeal Refill Roll	2

Sterile kits and refills also available - see our website

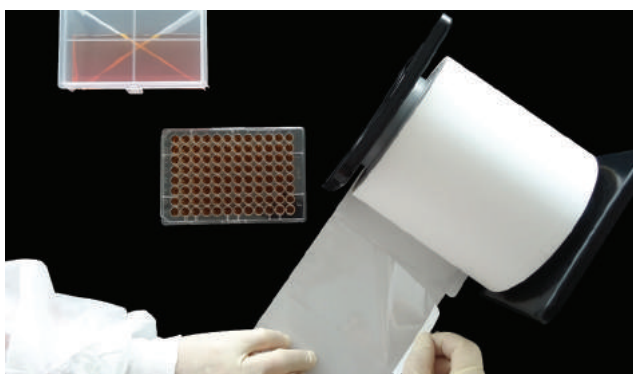
RollMate™ Adhesive Microplate Sealing Films

Pre-scored seals in a convenient, easy to use roll format.

- An economical, efficient way to rapidly seal microplates; faster than applying single sheeted film
- Self-standing, non-slip supports hold pre-scored film roll securely in place for quick and easy dispensing
- Continuous backing liner can be torn off or fed directly into a waste basket for disposal
- Roll tension can be easily adjusted to user preference (e.g. loose, tight)
- High integrity packaging prevents damage during transit; poly bag eliminates dust and particulate contamination
- Dispenser is made from material which can be recycled

Available in 2 types of seal:

SealPlate® RollMate™



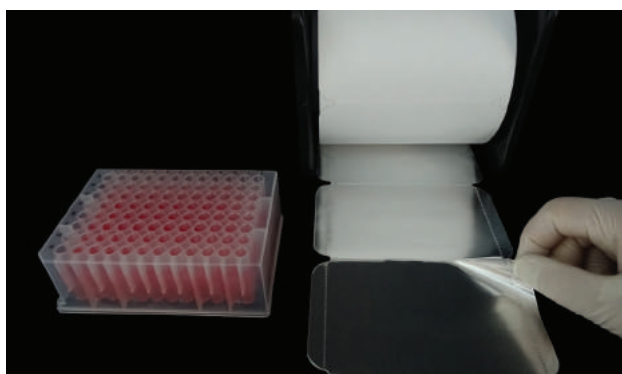
Application: Ideal for ELISA, incubation and storage

Temperature Range: -40C to +120C

- SealPlate film minimises evaporation, reduces cross-contamination and prevents spillage
- Eliminates the "edge effect", excess evaporation in the outside Wells, which can occur with other films and plate lids
- Useful as a simple cover to protect samples from external contamination, dust and debris
- 50µm rigid polyester film features good clarity and easy handling
- Single, writable end-tab for easy application and plate identification

SealPlate® RollMate™		
Catalogue Number	Description	Pack Size
SP2-RL-500	SealPlate RollMate 500 sheets per roll	Each

FoilSeal™ RollMate™

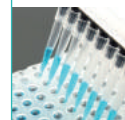


Application: Ideal for standard PCR, long-term storage, light sensitive assays and robotics

Temperature Range: -80C to +120C

- Certified DNase- & RNase- free
- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimizes shredding during removal; ideal for cold storage
- Conformable foil allows visual verification of seal security around each Well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surface

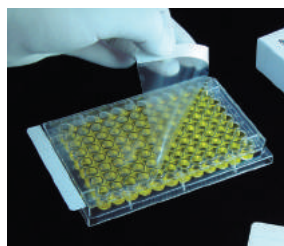
FoilSeal™ RollMate™		
Catalogue Number	Description	Pack Size
F2-RL-500	FoilSeal RollMate 500 sheets per roll	Each



Microplates and PCR Consumables

SealPlate® Sealing Films for ELISA, EIA and Similar Assays

50µm thickness polyester sealing films minimise evaporation during incubation, prevent spillage and contamination between Wells, and provide a secure seal, not just a cover.



Secure sealing of all Wells eliminates "edge effects" in sensitive ELISA assays. SealPlate® sealing films can also be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards. SealPlate® sealing films are non-pierceable. ThinSeal™ polyester sealing films are just 25µm thick, clearer and marginally pierceable.

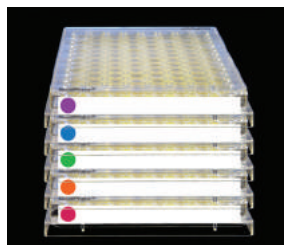
- Functional temperature range from -40C to +120C
- Available sterile and non-sterile

SealPlate® Sealing Films

Catalogue Number	Description	Pack Size
LW2770	SealPlate® Sealing Films, Non-Sterile	100
LW2771	SealPlate® Sealing Films, Sterile	100
LW2774	ThinSeal™ Sealing Films, Non-Sterile	100
LW2775	ThinSeal™ Sealing Films, Sterile	100

SealPlate® ColorTab™ Sealing Films

Applicable for the same incubations as standard SealPlate® but these sealing films are supplied with five dot colours (green, lavender, orange, red, blue) in non-sterile single-colour packs of 100 and in assorted packs of 50 containing five individual-colour packs of 10, non-sterile or sterile.



- Colour dots and white labelling area on end tabs
- Second tab can be separated for lab-notebook insertion
- End tabs can be left on plate even if centre of sealing film is removed

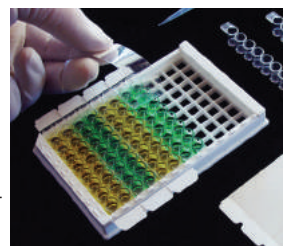
U.S. and other patents pending.

SealPlate® ColorTab™ Sealing Films

Catalogue Number	Description	Pack Size
SP-IDG-100	SealPlate® ColorTab™ Sealing Films, Green	100
SP-IDL-100	SealPlate® ColorTab™ Sealing Films, Lavender	100
SP-IDO-100	SealPlate® ColorTab™ Sealing Films, Orange	100
SP-IDR-100	SealPlate® ColorTab™ Sealing Films, Red	100
SP-IDB-100	SealPlate® ColorTab™ Sealing Films, Blue	100
SP-IDA-10	SealPlate® ColorTab™ Sealing Films, Assorted	50

SealPlate® MiniStrips™ Sealing Films

Identical to SealPlate® films and can be used for the same incubations, but designed for sealing only one or two 8-Well rows at a time on either strip-Well or standard plates whenever rows must be selectively protected or accessed.



- Can be used as secondary seal to cover sealing films that have been pierced
- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

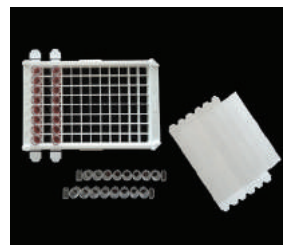
(NOTE: Spacing does not permit simultaneous application of more than two strips.)

SealPlate® MiniStrips™ Sealing Films

Catalogue Number	Description	Pack Size
LW2772	SealPlate® MiniStrips™ Sealing Films, Non-Sterile	200
SPS-2X8-50	SealPlate® MiniStrips™ Sealing Films, Sterile	200

EZcap™ General Purpose FilmStrips™

EZcap™ General Purpose FilmStrips™, for sealing a single 8-Well row of a 96-Well plate or an ELISA strip-Well plate.



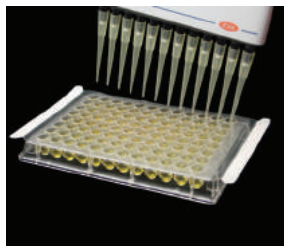
- Certified DNase- & RNase- free
- Each sheet contains 8 FilmStrips on a continuous backing liner for ease of use
- FilmStrips can be peeled and applied individually or two-at-a-time for increased efficiency
- 50µm polypropylene film features good clarity and easy handling
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage

EZcap™ General Purpose FilmStrips™

Catalogue Number	Description	Pack Size
LW2738	EZcap™ General Purpose FilmStrips™	400
LW2739	EZcap™ General Purpose FilmStrips™ Sterile	400

EZ-Pierce™ Sealing Films

Easily pierceable, 70µm thick, polyethylene with acrylic adhesive, EZ-Pierce™ sealing films allow direct sample recovery with single or multi-channel pipettors and robotic probes.



- Easily pierceable with pipette tips or robotic probes
- Chemical resistant
- Functional temperature range -40C to +90C

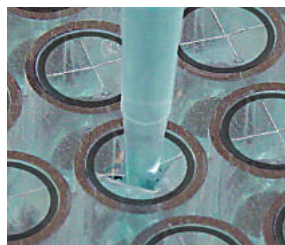
Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all Wells.

EZ-Pierce™ Sealing Films

Catalogue Number	Description	Pack Size
EZP-100	EZ-Pierce™ Sealing Films, Non-Sterile	100
EZPS-25	EZ-Pierce™ Sealing Films, Sterile	50

X-Pierce™ Pre-cut Pierceable Sealing Films for Automation

X-Pierce™ sealing films are 89µm thick vinyl with a 18µm thick adhesive layer, designed for temporary protection from contamination and evaporation for samples in 96-Well plates. For long-term protection after sampling, a continuous sealing film should be applied as a second layer. Sterile product is packaged in 100µm tamper-evident bags of 25.



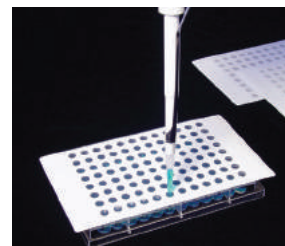
- Sealing film reseals for continued sample protection after sampling
- Temperatures -40C to +90C
- Special hairline X-cuts and thin adhesive prevent fouling or occlusion of probes and tips

X-Pierce™ Pre-cut Pierceable Sealing Films for Automation

Catalogue Number	Description	Pack Size
LW2788	X-Pierce™ Sealing Films, Non-Sterile	100
XPS-25	X-Pierce™ Sealing Films, Sterile	50 (2 x 25)

Zone-Free™ Sealing Films

With a 70µm top layer and inert white polypropylene and acrylic adhesive sublayer, this easy-piercing sealing film allows direct sample recovery with single or multichannel pipettors and robotic probes.



- Clear zone above each Well is free of adhesive and easily pierceable
- Clear zones and end tabs facilitate Well alignment and accurate positioning
- Chemical resistant
- Functional temperature range -40C to +90C

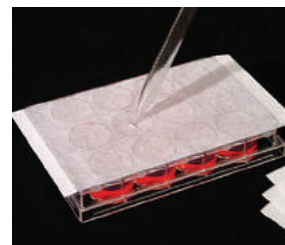
U.S. and other patents pending.

Zone-Free™ Sealing Films

Catalogue Number	Description	Pack Size
ZAF-PE-50	Zone-Free™ Sealing Films, Non-Sterile	50

AeraSeal™ Sealing Films for Cell and Tissue Culture

A 140µm thick hydrophobic porous sealing film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-Well plates where gas exchange is necessary for cell or bacterial growth. AeraSeal™ sealing films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO₂ exchange for all Wells, during incubation.



- Non-cytotoxic, highly gas permeable
- Easily pierceable with pipette tips or pipettes for sample recovery
- Recommended for temperatures from -20C to +80C

AeraSeal™ Sealing Films for Cell and Tissue Culture

Catalogue Number	Description	Pack Size
LW2782	AeraSeal™ Sealing Films, Non-Sterile	100
LW2783	AeraSeal™ Sealing Films, Sterile	50 (2 x 25)
LW2720	AeraSeal™ 100m roll for automation	1 Roll

Microplates and PCR Consumables

AlumaSeal CS™ Sealing Films for Cold Storage

Specially formulated aluminium foil sealing films with an adhesive that withstands cold storage at temperatures to -80°C. A single non-perforated end tab simplifies application. Simply hold the tab and strip the backing from the body of the sealing film as it lays on the plate to avoid curling.

Recommended temperature range: -80°C to +120°C. AlumaSeal CS™ sealing films are certified DNase-, RNase- and nucleic-acid-free. Sterile product is packaged in tamper-evident zippered bags of 25, two bags per box.

- Excellent barrier properties to retard evaporation
- Easily pierceable with pipette tips or robotic probes for sample recovery



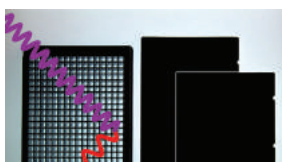
AlumaSeal CS™ Sealing Films for Cold Storage

Catalogue Number	Description	Pack Size
FC-100	AlumaSeal CS™ Sealing Films, Non-Sterile	100
LW2730	AlumaSeal CS™ Sealing Films, Sterile	50

AbsorbMax™ Sealing Films for Fluorescence and Photoprotection

203µm thick black vinyl adhesive sealing films for use with 96-Well, 384-Well, and 1536-Well black solid and clear bottom microplates.

The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly. Edge cut-outs assist in positioning and accommodate ribs on the plate bottom.



For top-reading fluorescence applications, apply the black sealing film to the base of clear-bottomed plates. For bottom-reading fluorescence, use the black sealing film as a top seal.

Film dimensions are 114.3 x 76.2 mm

- Protect light-sensitive samples during storage or incubation
- Reduce stray light and crosstalk in fluorescence assays

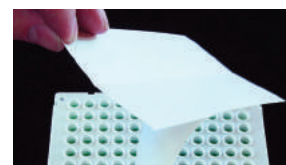
AbsorbMax™ Sealing Films

Catalogue Number	Description	Pack Size
BK-50	AbsorbMax™ Black Sealing Films, Non-Sterile	50

BrightMax™ Sealing Films for Luminescence and Microscopy

BrightMax™ sealing films are 203µm thick white vinyl films with 37µm acrylic adhesive for use with white microplates.

The sealing films may be applied to either the top or bottom of the plate. A split backing aids in applying the sealing film properly. The light-reflective properties of BrightMax plate-sealing films on clear-bottom plates maximize sensitivity of bioluminescence and chemiluminescence assays in bottom-reading luminometers. White films also have an application as a backing matrix for microscopy of punch-out samples from filter plates, for example in ELISPOT assays.



- Recommended temperature range: -40°C to +80°C.
- White light-reflecting sealing films for use with white microplates
- Can be applied to the top or bottom of the plate
- Maximise intensity and signal-to-noise ratios in luminescence assays
- Can be used for mounting and storage of filters for microscopy, for example in ELISPOT assays

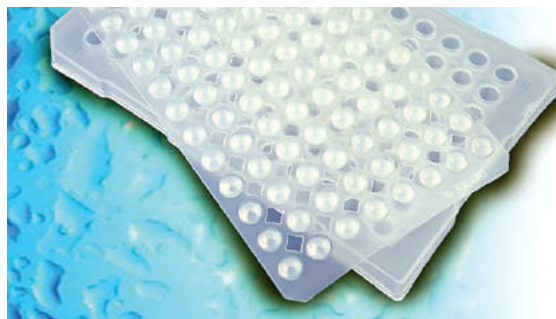
BrightMax™ Sealing Films

Catalogue Number	Description	Pack Size
LW2795	BrightMax Sealing Film	50

PCR Plate Sealing

PCR Plate Sealing Mat

This 96-Well silicon rubber plate sealing mat fits most 96-Well plates, and is suitable for pressure-fit lids. It can be autoclaved and re-used many times.



PCR Plate Sealing Mat

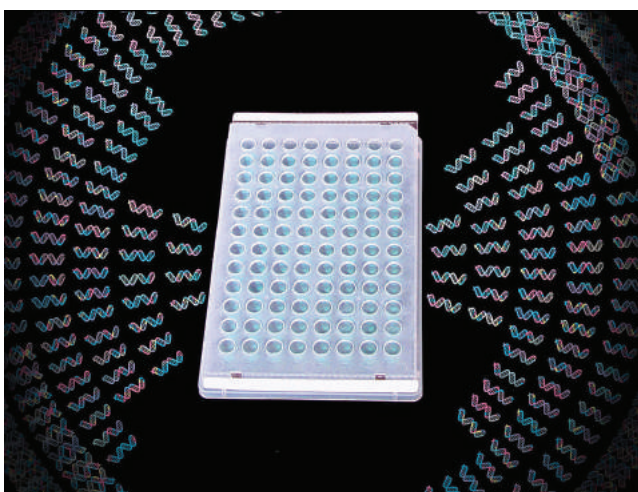
Catalogue Number	Description	Pack Size
LW2221	Sealing Mat for PCR Plates	50 (5 x 10)
LW2221-10	Sealing Mat for PCR Plates	10

Adhesive Plate Seals for PCR

All our adhesive plate seals are certified free of DNase, RNase and nucleic acids.

For sealing film accessories please see page 134.

ThermalSeal® Sealing Films for PCR



A 50µm heat-resistant polypropylene sealing film designed for thermal cycling applications, and has sufficient sealing area for all PCR plates.

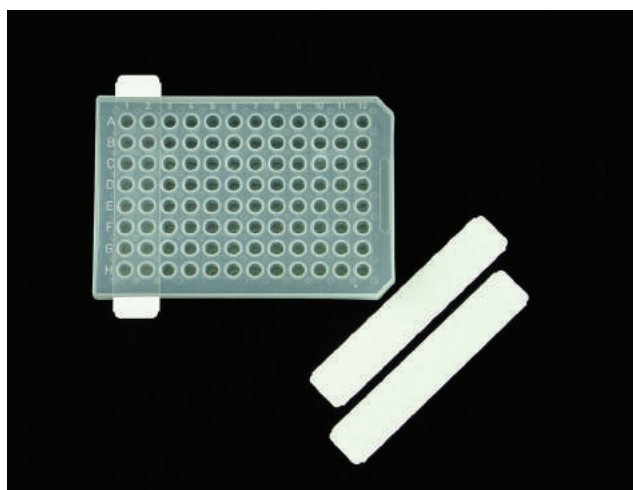
ThermalSeal® sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal II sealing films. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS and RT2RR sealing films.

- Heat resistant, recommended for temperatures from -40C to +120C

ThermalSeal® Sealing Films for PCR

Catalogue Number	Description	Pack Size
LW2776	ThermalSeal Sealing Films, Non-sterile	100
LW2777	ThermalSeal Sealing Films, Sterile	100

ThermalSeal® Ministrips



ThermalSeal® MiniStrips™ sealing films are identical to ThermalSeal sealing films (left), but designed for sealing only one or two 8-Well rows at a time on PCR plates or strip tubes. They are supplied in convenient sheets of four. Each sealing film strip is 19.0 x 97.3 mm, including two removable positioning tabs. The long dimension with tabs removed is 76.2 mm. Each package of 200 contains 50 sheets of four sealing film strips.

- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

ThermalSeal® Ministrips™

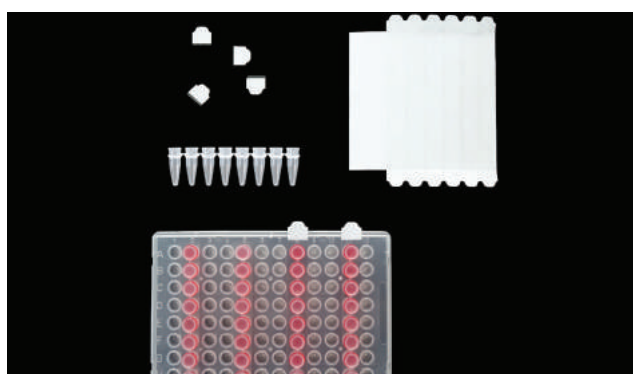
Catalogue Number	Description	Pack Size
LW2735	ThermalSeal® Ministrips™	200 (4 x 50)

EZcap™ PCR Sealing Strips™ for PCR

For sealing one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip.

- An economical and more user-friendly alternative to strip-caps; no more sore thumbs and fingers guaranteed!
- Precision cut to a smaller dimension to seal one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip
- Each sheet contains 8 sealing Strips on a continuous backing liner for ease of use
- Strips can be peeled individually or two-at-a-time for increased efficiency
- Strips can be used to selectively cover one row of a plate to prevent accidental pipetting or to re-seal rows that have been pierced
- Certified DNase- & RNase- free

EZcap™ PCR FilmStrips™



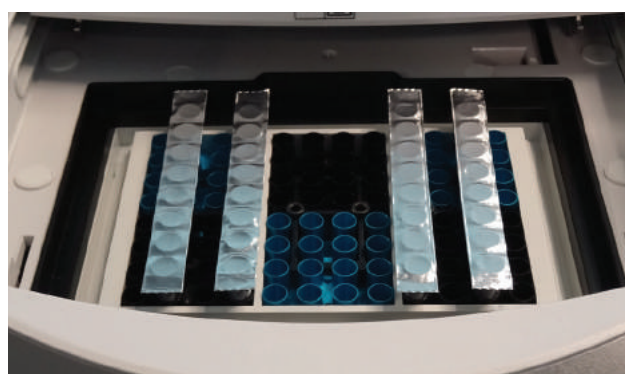
Application: Ideal for standard PCR, real-time PCR and storage

Temperature Range: -40C to +120C

- 50µm clear polyester film is ideal for PCR and qPCR
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two removable end-tabs with perforations for ease of handling, application and removal

EZcap™ PCR FilmStrips™		
Catalogue Number	Description	Pack Size
LW2736	EZcap PCR FilmStrips	400

EZcap™ PCR FoilStrips™



Application: Ideal for standard PCR, storage (DMSO resistant), light sensitive assays and robotics

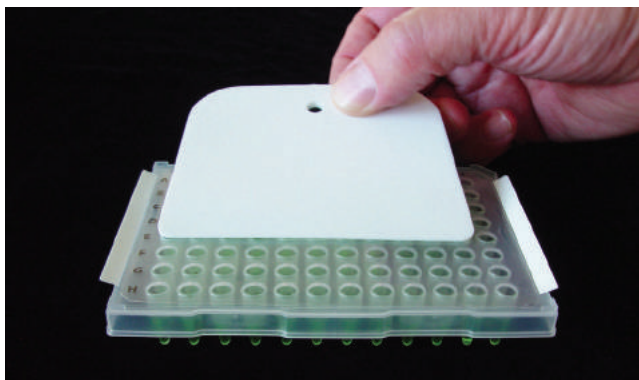
Temperature Range: -80C to +120C

- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimises shredding during removal
- Conformable foil allows visual verification of seal security around each Well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two end-tabs with perforations for ease of handling, application and removal

EZcap™ PCR FoilStrips™		
Catalogue Number	Description	Pack Size
LW2737	EZcap PCR FoilStrips	300

ThermalSeal® Sealing Films for PCR

ThermalSeal® A Films for PCR and Storage



An advanced version of the classic ThermalSeal® films for PCR. They consist of 50µm thick clear polyester with a 41µm layer of a stronger adhesive formulated for improved protection against evaporation and leakage during thermal cycling. Not designed for Real-Time PCR applications*. They are designed to fit inside the edge of raised-rim PCR plates. Each pack of films includes one sealing paddle (see photo) for ensuring a firm seal.

- Heat resistant, recommended for temperatures from -40C to +120C

* for real-time PCR, use ThermalSeal RT™ films - please see the following page.

ThermalSeal® A Films for PCR and Storage		
Catalogue Number	Description	Pack Size
TSA-100	ThermalSeal A, Non-sterile	100

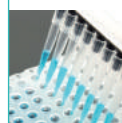
ThermalSeal 2™

These improved films for classic thermal cycling applications consist of a 50 µm polyester film with a 41 µm layer of acrylic adhesive. Compared to the original ThermalSeal® films, ThermalSeal 2™ films offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate. Each sealing film measures 79.4 x 139.7 mm and offers sufficient sealing area for all PCR plates. Length between the perforations with end tabs removed is 125.1 mm. (Not recommended for raised-rim plates; see ThermalSeal A™ films - left.)

ThermalSeal 2 sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal® sealing films on page 133. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS™ and RT2RR sealing films on the following pages.

- Heat resistant, recommended for temperatures from -40C to +120C
- Better adhesion; reduced evaporation
- Longer end tabs for easier handling
- Does not tear during removal from the plate
- Easier to apply than aluminum foils, no tendency to roll back

ThermalSeal 2™		
Catalogue Number	Description	Pack Size
LW2726	ThermalSeal2, Non-Sterile	100



Specialist Custom Plate Seals Design, Manufacturing and Packaging for OEM

For special applications, diagnostic kit production etc.

- Indexed roll formats for automation
- Speciality materials and adhesives
- Custom die-cut shapes and sizes
- Custom printing, packaging and labelling

Quality Assured

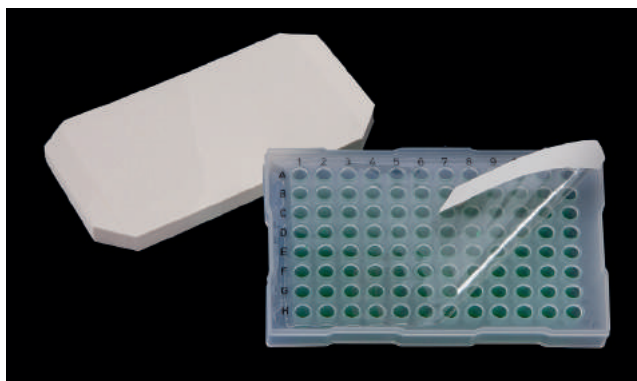
- Stringent QC procedures for all products
- Product consistency lot-to-lot
- Certificates of compliance and sterility

Contact Alpha Laboratories for more information or a quotation



eXTreme™ Sealing Films for PCR, qPCR & Storage

eXTreme™ Sealing Film Universal Cut



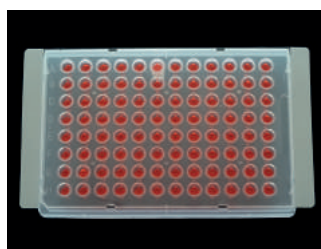
Universal Cut eXTreme sealing films measure 78.3 x 140.5mm and offers sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications and tight storage conditions. Length between perforations with end tabs removed is 119mm.

eXTreme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2734	eXTreme™ Sealing Film Universal Cut	100

eXTreme™ Sealing Film Large Cut

Large cut eXTreme sealing films are designed for greater coverage which results in a more complete seal around the edges of the plate which can reduce evaporation rates. Larger cut also allows for easier positioning of the film to the plate via edge of plate alignment vs. centering.



- Excellent barrier properties, virtually no sample evaporation or drying
- Two end-tab feature allows for ease of placement of film to plate
- Specially formulated adhesive provides an excellent seal for all plate materials, including polycarbonate
- 50µm polyester film will remove cleanly from plate surfaces with no adhesive stringing or residue and will not tear upon removal

eXTreme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2733	eXTreme™ Sealing Film Large Cut	100

ThermalSeal® Sealing Films for qPCR

ThermalSeal RT™ Sealing Films for Real-Time PCR

ThermalSeal RT™ sealing films combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications. In place of the customary paper backing, ThermalSeal RT™ sealing films have a plastic liner which is easily removed before use and contributes smoothness and extreme optical clarity to the adhesive. Dimensions are 79.4 x 142.9mm for sealing PCR plates. Length between the perforations with end tabs removed is 121.9mm.

- "Brilliant" ultra-high optical clarity
- Heat resistant, recommended for temperatures from -40C to +120C

ThermalSeal RT™ Sealing Films for Real-Time PCR

Catalogue Number	Description	Pack Size
LW2786	50µm Thick Sealing Films, Non-Sterile	100

ThermalSeal RTS™ Sealing Films for qPCR, Storage and Protein Crystallisation

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications. When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each Well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample Wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.

- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications

ThermalSeal RTS™ Sealing Films for qPCR

Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

Sealing Films

ThermalSeal RT2RR™ for Real-Time PCR

50µm polyester sealing films for real-time PCR with the same consistent ultra-high optical clarity as ThermalSeal RT™ sealing films (previous page). This gives more reproducible, reliable, and consistent DNA amplification measurements.

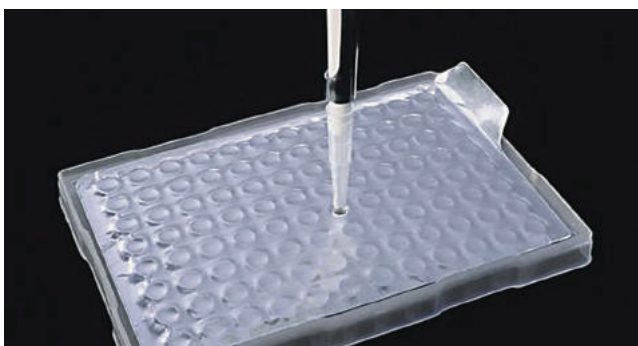
An inert, strong, temperature-resistant adhesive assures reliable sealing around each Well. Two end tabs assist in positioning the sealing film. Easy removal of the end tabs at perforated boundaries prevents lifting and higher evaporation rates that can occur with sealing films that overlap the plate rim. Recommended for specific DNA sequence detection in clinical diagnostics, forensic science and basic research.

- Fit within plate rim to prevent evaporation due to sealing film lifting
- Ultra-high optical clarity
- Heat resistant, for temperatures from -40C to +120C

ThermalSeal RT2RR™ Sealing Films for Real-Time PCR

Catalogue Number	Description	Pack Size
TS-RT2RR-100	ThermalSeal RT2RR 50-µm Thick Sealing Films, Non-sterile	100

AlumaSeal 96™ and 384™ Sealing Films



A 38µm thick aluminum foil sealing film for use with 96- or 384-Well plates.

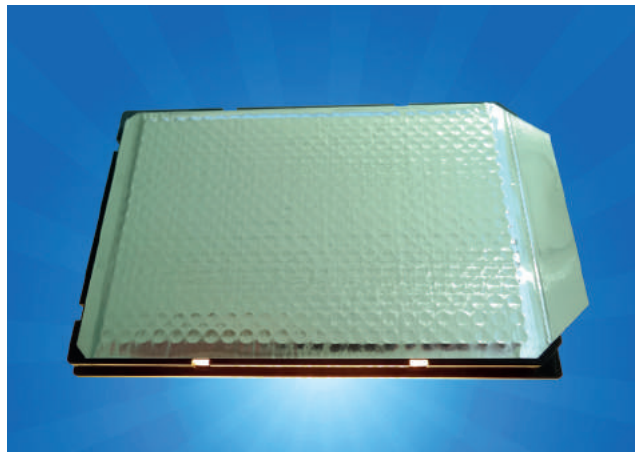
Pierceable. Available non-sterile only.

- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Fits inside rim of raised-rim plate

AlumaSeal 96™ Sealing Films

Catalogue Number	Description	Pack Size
F-96-100	AlumaSeal 96 Sealing Films, Non-sterile	100
F-384-100	AlumaSeal 384 Sealing Films, Non-sterile	100

eXTReme™ FoilSeal™



For high performance under extreme conditions. Ideal for PCR, long term compound storage, light sensitive assays and robotics.

A 48µm soft non-permeable aluminium foil sealing film with 30µm layer of strong acrylic adhesive. Provides an excellent seal for all plate materials (e.g. polystyrene, polypropylene and two component polycarbonate/ polypropylene PCR plates), whilst still removing cleanly from plate surfaces with no adhesive stringing, residue or contamination.

Foils measures 78.3 x 29mm with sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications. Length between the perforation with end tab removed and the end of the foil seal is 118.1mm.

- Single end-tab features a custom perforation that will not tear during removal
- Excellent barrier properties minimises sample evaporation
- 48µm thick aluminium foil minimises shredding during removal and is ideal for cold storage
- Conformable foil allows visual verification of seal security

eXTReme™ FoilSeal™

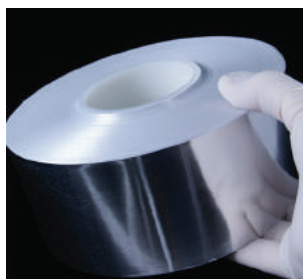
Catalogue Number	Description	Pack Size
LW2732	eXTReme™ FoilSeal™ Sealing Foil	100

AlumaSeal® Roll

Adhesive PCR sealing foils on rolls for use with high-throughput automated microplate sealers.

The Roll-Seal format provides reliable and efficient sealing at a lower cost per plate with minimal user intervention.

Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion.



AlumaSeal® Rolls

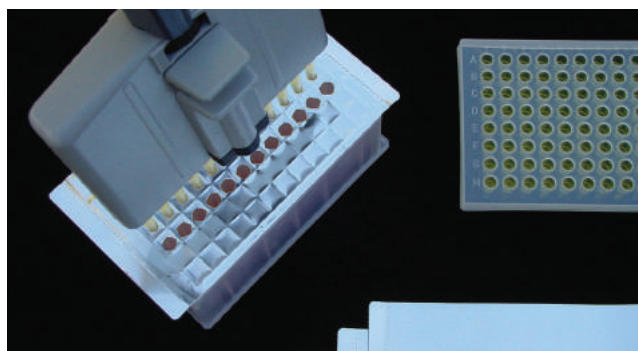
Catalogue Number	Description	Pack Size
LW2722	AlumaSeal® 100m Roll-Seal™ for Automation	Each

AlumaSeal II™ for PCR and Cold Storage

A 36µm soft, non-permeable aluminum foil sealing film with strong medical-grade adhesive, AlumaSeal II™ sealing films eliminate the need for heat-sealing devices or mats during thermal cycling. Each sealing film offers sufficient sealing area for all PCR plates. Compared to other aluminum foils, AlumaSeal II™ has less tendency to roll back on itself when removing the backing paper and conforms well to the plate during application.

Sterile product is packaged in two 100µm tamper-evident bags of 25.

- Easily pierceable with single or multichannel pipettes and robotic probes
- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Excellent barrier properties, virtually no sample evaporation or drying during incubation or storage

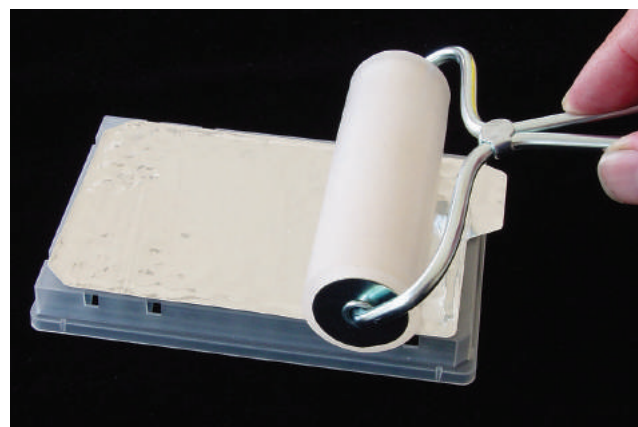


AlumaSeal II™ Sealing Films for PCR and Cold Storage

Catalogue Number	Description	Pack Size
LW2780	AlumaSeal II Sealing Films, Non-sterile	100
LW2781	AlumaSeal II Sealing Films, Sterile	50 (2 x 25)

Sealing Film Accessories

Plate Roller

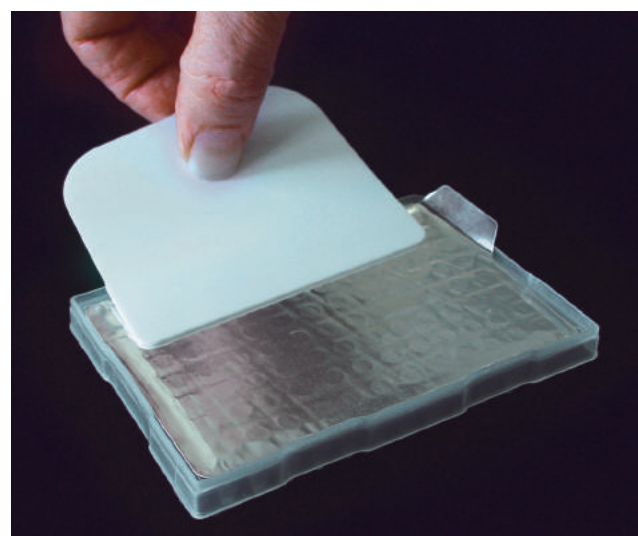


Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all Wells on 96-Well, 384-Well, and 1536-Well plates.

Plate Roller

Catalogue Number	Description	Pack Size
RL-PLT-01	Accessory: Plate Roller	1

Film-Sealing Paddles



Alternative to plate roller for pressing sealing film to assure a secure uniform seal around all Wells on 96-Well, 384-Well, and 1536-Well plates. Better than plate roller for use with raised-rim plates as the paddle fits within the rim of the plate.

Film-Sealing Paddles

Catalogue Number	Description	Pack Size
PDL-5	Film-Sealing Paddles, Non-sterile	50

Organise Your Samples Versatile Racks for Laboratory and Freezer Storage

Our practical, space saving racks help you organise precious bench and freezer space, ensuring your valuable samples are safely stored and easily accessible.

We have versatile storage solutions for a full range of PCR tubes, microtubes, cryovials, 15ml and 50ml tubes. A choice of attractive colours gives you the option of colour coding your storage for additional convenience.

Specialist racks for PCR help with workflow and our Isofreeze® cooled racks ensure temperature sensitive samples remain protected when out on the bench.

Contents

	Page
MultiRack™	136
80-position Rack	137
Combiracks	138
PCR Racking Systems	140
IsoFreeze® Racks	141
Freezer Racks	142
Cryogenic Storage	144



MultiRack™



The MultiRack™ is available in three models to accommodate a full range of laboratory test tubes and centrifuge tubes up to 30mm in diameter. Made of highly resistant acetal polymer, it will not shatter or stain in contact with most laboratory chemicals. It also has no coating that can chip, peel or rust in a water bath.

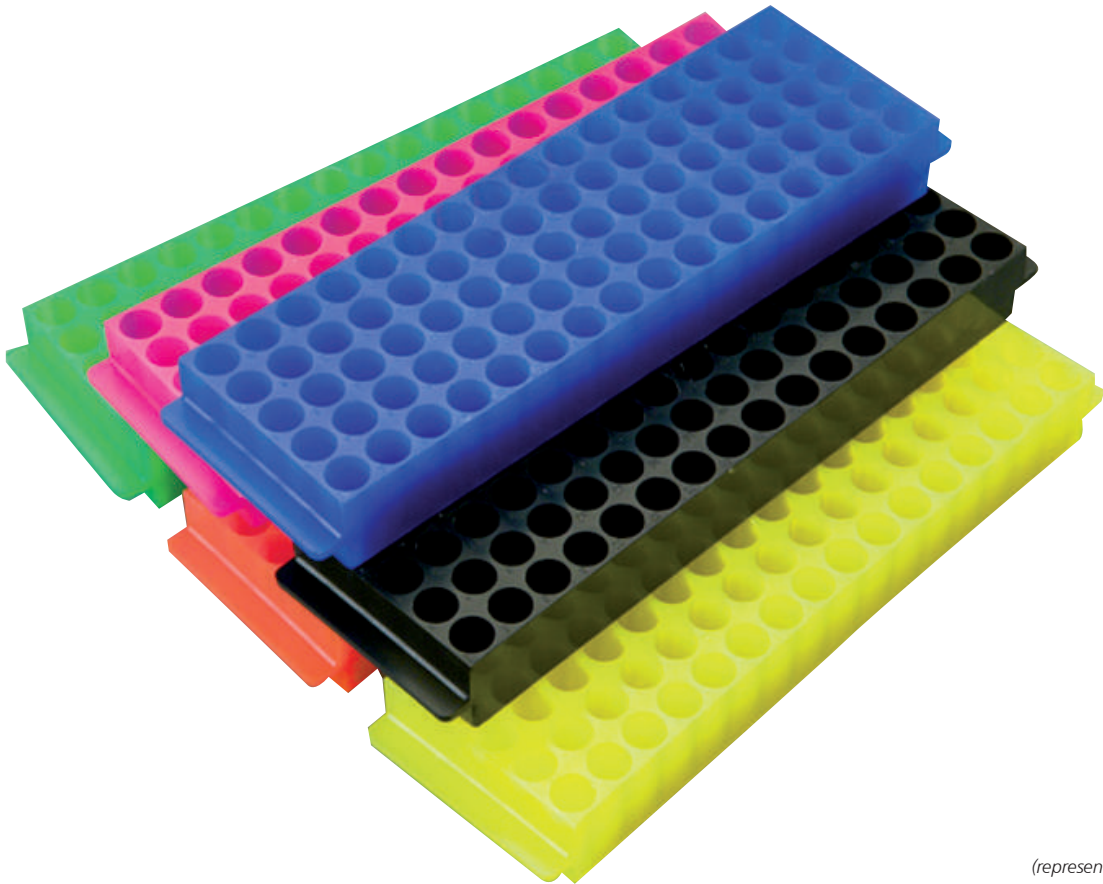
The MultiRack™ is made of three tiers to facilitate the insertion and stability of tubes. The base tier has rounded Wells with drain holes. Convenient handles on each side of the rack will ensure a safe grip when carrying it around. Interlocking feet allow stacking. It is also autoclavable at 121C for 20 minutes.

- Lightweight and stackable – saving space
- Ideal for incubators, refrigerators, freezers, fume hoods, bench-tops
- Submersible (sinks) and maintains stability
- For tubes up to 13mm, up to 16mm and up to 30mm
- Dimensions 293 x 115 x 65mm
- Available in five colours

MultiRack™

Catalogue Number	Description	Pack Size
13mm		
LW6113B	13mm MultiRack 84 Position, Blue	2
LW6113G	13mm MultiRack 84 Position, Green	2
LW6113L	13mm MultiRack 84 Position, Lilac	2
LW6113O	13mm MultiRack 84 Position, Orange	2
LW6113Y	13mm MultiRack 84 Position, Yellow	2
16mm		
LW6116B	16mm MultiRack 60 Position, Blue	2
LW6116L	16mm MultiRack 60 Position, Lilac	2
LW6116O	16mm MultiRack 60 Position, Orange	2
LW6116Y	16mm MultiRack 60 Position, Yellow	2
30mm		
LW6130B	30mm MultiRack 18 Position, Blue	2
LW6130G	30mm MultiRack 18 Position, Green	2
LW6130L	30mm MultiRack 18 Position, Lilac	2
LW6130O	30mm MultiRack 18 Position, Orange	2
LW6130Y	30mm MultiRack 18 Position, Yellow	2

80-position Rack

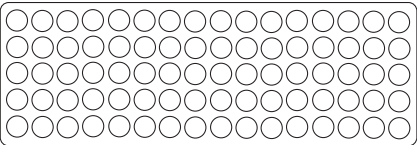


(representative image)

Accommodating a surprisingly large range of tubes, this rack has a multitude of uses.

Suitable for efficient freezer storage of microtube samples and manufactured from virgin polypropylene, it is autoclavable and has a conical base to the tube positions to provide a greater degree of support.

Frosted writing areas, in combination with the assorted colours, give you a choice of identification and marking possibilities.



80-position Rack			
Catalogue Number	Description	Dimensions	Pack Size
LW6220AS	80-Position Rack, Assorted	227 x 66 x 27 (W x L x H)	5 racks
LW6220	80-Position Rack, Natural	227 x 66 x 27 (W x L x H)	5 racks

Tube Storage Racks

Combiracks

Twist-Lock Combirack

The Combirack Twist-Lock comes as a set of 4 brightly coloured, four-sided racks, which can twist and lock together in any arrangement to suit the user. Each rack can hold different sized tubes on each side and can be mixed in different combinations to provide a workstation suitable for many applications including PCR.

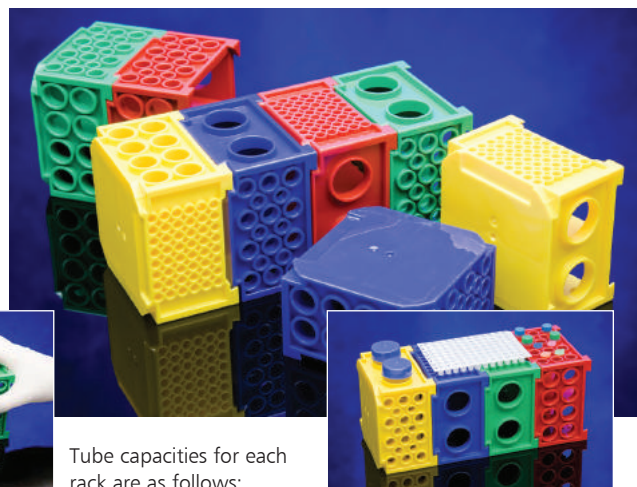


The Combirack Twist-Lock consists of a red, blue, green and yellow colour combination.

- Made from durable polypropylene
- Single rack dimensions:
108 x 108 x 69mm
- Temperature range: -80 to 121°C
- Autoclavable at 121°C

Combirack Twist-Lock

Catalogue Number	Description	Pack Size
LW5850	Combirack Twist-Lock (Set of 4 racks)	1



Tube capacities for each rack are as follows:

Tube Type	Dimension	Quantity
50ml Tube	Max 30mm diameter	2
15ml Tube	Max 18mm diameter	8
1.5 or 2.0ml Microtubes	Max 11mm diameter	12
0.5ml Microtube	Max 8mm diameter	6
PCR Plates (unskirted or semi-skirted 96-Well)		1 fits across 2 racks
8-tube PCR Strips		6
12-tube PCR Strips		8 strips fit across 2 racks
0.2ml PCR Tubes		48

Four-Way Combirack

The rugged polypropylene construction, the bright colours and the patented design, make the Four-Way Combirack a highly worthwhile addition to your laboratory.

All Four-Way Combiracks are autoclavable and are suitable for use in ultra-low temperature freezers (-90°C).

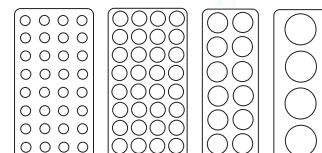
The system can interlock giving an instantly expandable racking system. Simply press two or more of the racks together to increase the tube capacity and to create your custom laboratory rack.

Four-Way Combirack's small footprint makes these handy racks convenient on the bench, under the hood and in a wide range of other situations.

- Interlocking and expandable racking system
- Fits 50ml, 15ml, 5.0ml, 2.0ml, 1.5ml and 0.5ml tubes
- Suitable for ULT freezer use (-90°C)

create your custom laboratory rack

**expandable
racking system**



Tube Type	Diameter	No of Tubes
50ml	30mm	4
15ml	16-17mm	12
5.0ml	16-17mm	18
1.5ml - 2.0ml	12mm	32
0.5ml	8mm	32

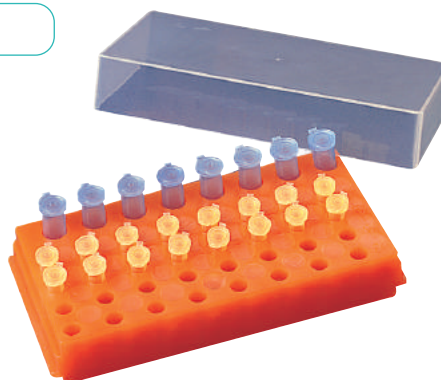
Four-Way Combirack

Catalogue Number	Description	Dimensions	Pack Size
LW5840AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	5 racks
LW5840	4-Way Combirack, Natural	171 x 54 x 91mm (L x W x H)	5 racks
FT1850AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	4 racks

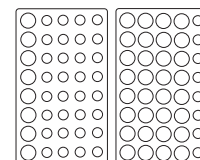
32-place Combirack Junior

The Combirack Junior is perfect for use as a working rack during sequencing procedures. One side has 32 Wells for 0.5ml type tubes with 8 larger positions for 1.5 or 2.0ml tubes. The other side has the opposite configuration: 32 positions for 1.5ml or 2.0ml tubes with 8 smaller positions. Both sides have moulded indexing.

- Ideal for sequencing procedures
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible
16961216



32-Place Combirack Junior

Catalogue Number	Description	Dimensions	Pack Size
LW5440AS	Combirack Junior, Assorted	169 x 81 x 50mm (W x L x H) lid on	5 racks

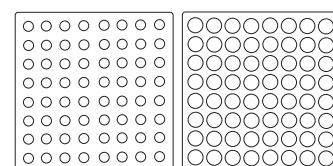
64-place Combirack

64-place Combirack has 8 rows and 8 columns in a 129mm square making this a great replacement for card or metal racks. Moulded indexing is featured for easy reference.

- Great replacement for card or metal racks
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible
16961216



64-Place Combirack

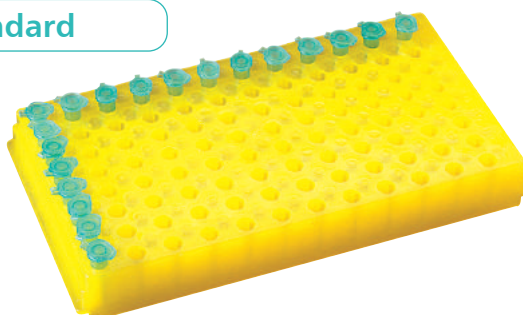
Catalogue Number	Description	Dimensions	Pack Size
LW5640AS	Combirack Junior with lid, Assorted	129 x 129 x 44mm (W x L x H) lid on	5 racks
LW5640	Combirack Junior with lid, Natural	129 x 129 x 44mm (W x L x H) lid on	5 racks



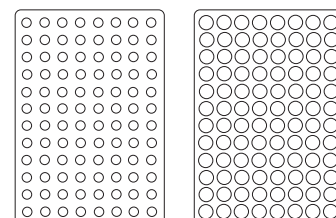
96-place Combirack Standard

The most popular Combirack!
8 rows and 12 columns with moulded indexing for easy reference.

- Layout corresponds to 96-Well plates
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Optional lid can be ordered separately



reversible
16961216



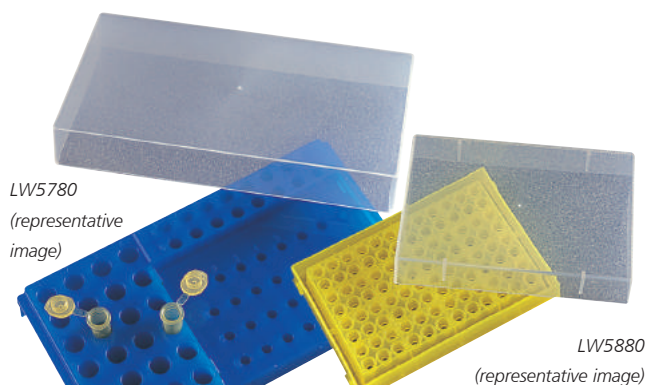
96-Place Combirack

Catalogue Number	Description	Dimensions	Pack Size
LW5220AS	Combirack Standard. 96, Assorted	212 x 113 x 50mm (W x L x H) lid on	5 racks
LW5220	Combirack Standard. 96, Natural	212 x 113 x 22mm (W x L x H) lid off	5 racks
LW5122	Lid for Standard Combiracks, Natural	206 x 118 x 29mm (W x L x H)	5 lids



PCR Workstation and 96-Well Racks

These popular racks and workstations offer the perfect solution to PCR set-up whether you are using tubes, tube strips or plates. All are made from durable polypropylene and have sturdy lids. They are perfect for transporting samples and reactions between preparation, thermal cycling and post-PCR procedure areas. They also come in a wide range of colours!



The 96-position rack (LW5880) is designed to be used as a working or storage rack for pre- and post-PCR sample processing. The rack can be clipped into the PCR workstation (LW5780) accommodating 0.2, 0.5 and 1.5ml tubes.

96-Well Rack and Workstation

Catalogue Number	Description	Pack Size
LW5880AS*	0.2ml PCR Tube Rack, assorted colours	5
LW5780*	PCR Workstation	1

* Single colours available. Please see our website.

Interlocking 96-Well PCR Rack

This convenient space-saving rack was designed for storing and working with PCR samples. The racks can be horizontally attached to each other to build any configuration you desire. With the lid on, they are easily stackable.

Interlocking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5890AS*	0.2ml Interlocking 96-Well PCR Rack, assorted colours	5

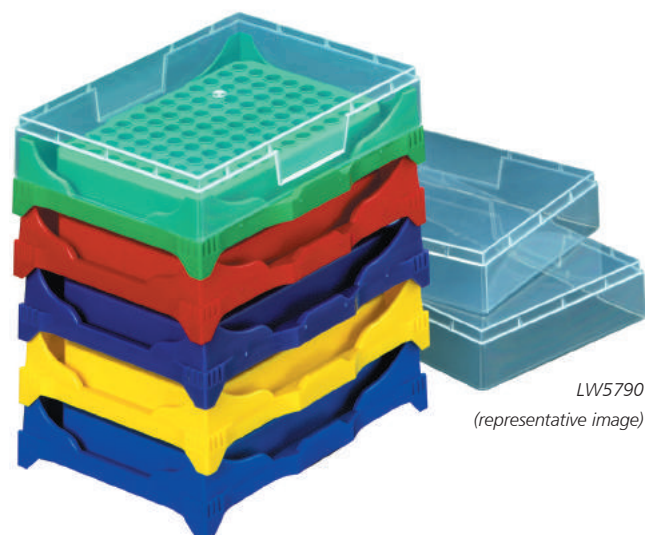
* Single colours available. Please see our website.

Stacking 96-Well PCR Rack

The stacking PCR rack will accommodate all different types of 0.2ml PCR consumables, including tubes and fully-skirted plates. The unique feet provide a stable platform and enable stacking with or without the lid.

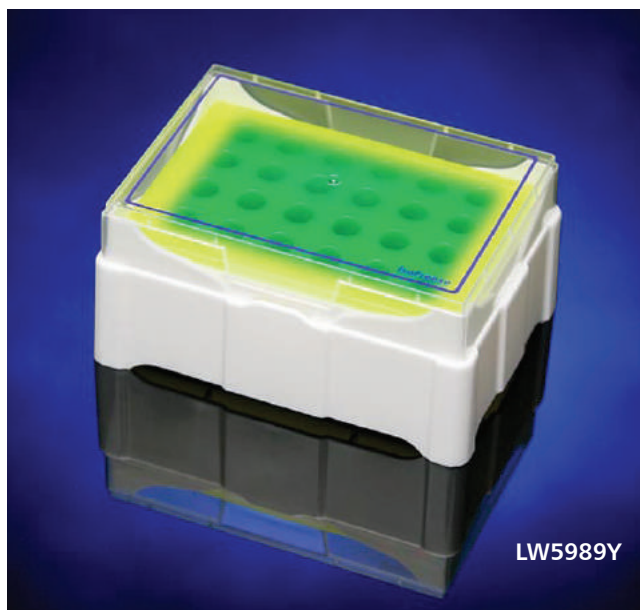
Stacking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5790	Stacking 96-Well PCR Rack, assorted colours	5



IsoFreeze® PCR: Plate, Strip and Tube Chiller

Changes Colour with Temperature!



Bring the fridge to your bench in style with IsoFreeze® gel-filled racks. IsoFreeze® colour change racks dramatically change to a contrasting colour at 7C indicating when your samples start to warm up. The racks can keep samples cool for over 3 hours and eliminate the need for an ice bucket and the mess it can cause.

Now in three different formats:

- IsoFreeze® MCT accommodates 24 tubes of either 0.5, 1.5, 2.0ml snap-top or screw-cap style
- IsoFreeze® PCR accommodates all 0.2ml tubes, strip-tubes and PCR plates up to 96-Well
- IsoFreeze® PCR SBS has an SBS footprint so is ideal for your automated system

IsoFreeze® Colour Change Racks

Catalogue Number	Description	Pack Size
LW5989P	IsoFreeze MCT Rack, Purple to Pink	1
LW5989Y	IsoFreeze MCT Rack, Green to Yellow	1
LW5990P	IsoFreeze PCR Rack, Purple to Pink	2
LW5990Y	IsoFreeze PCR Rack, Green to Yellow	2
LW5991P	IsoFreeze PCR SBS Rack, Purple to Pink	2
LW5991Y	IsoFreeze PCR SBS Rack, Green to Yellow	2

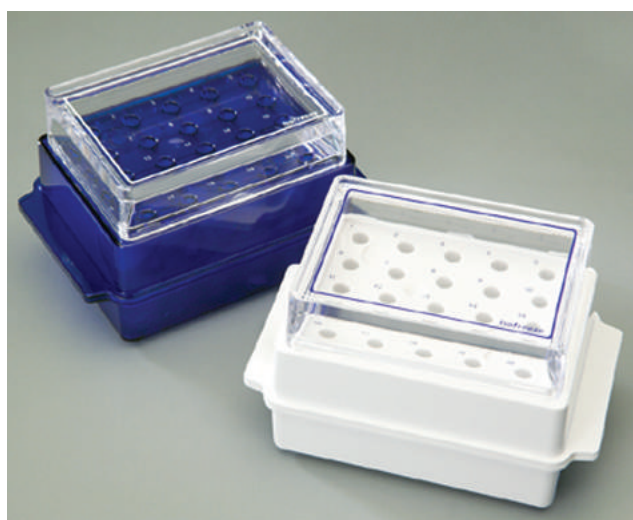
IsoFreeze® Flipper

IsoFreeze® Flipper provides consistent thermal protection for extended periods.

- White unit maintains samples at 0C for over 5 hours
- Blue unit maintains samples between -10 and -20C for up to 3 hours
- Fits 0.5ml or 1.5/2.0ml tubes

IsoFreeze® Flipper

Catalogue Number	Description	Pack Size
PC40260	IsoFreeze Flipper Rack, White, 0C	1
PC40270	IsoFreeze Flipper Rack, Blue, -20C	1



Freezer Racks

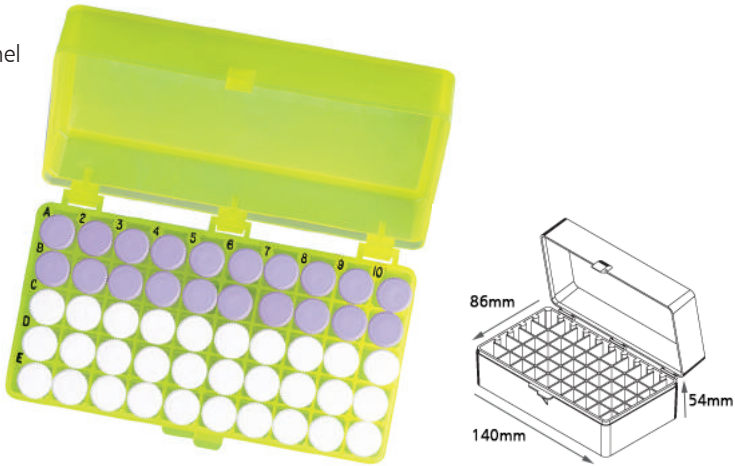
50-position Freezer Rack

This smaller format rack is ideal for limited storage space.

It has a tough, hinged locking lid and a frosted writing panel on the front, which provides a convenient labelling option.

In addition, these racks can be autoclaved and are suitable for use in freezers as cold as -90C.

- Temperature range -90C to +120C
- Hinged lid
- 50 x 1.5/2.0ml microtubes, or 1.2ml cryovials



50-position Freezer Rack			
Catalogue Number	Description	Dimensions	Pack Size
LW5725AS	50-Position Freezer Rack, Assorted	140 x 86 x 54mm (W x L x H)	5 racks
LW5725N	50-Position Freezer Rack, Natural	140 x 86 x 54mm (W x L x H)	5 racks

100-position Freezer Rack

With the same features as the 50-Position Freezer Rack, this provides secure storage for larger sample throughput applications.

- Temperature range -90C to +120C
- Hinged lid
- 100 x 0.5/1.5/2.0ml microtubes, or 1.2ml cryovials
- Available in black for light sensitive samples



100-position Freezer Rack			
Catalogue Number	Description	Dimensions	Pack Size
LW5750AS*	100-Position Freezer Rack, Assorted	142 x 142 x 54mm (W x L x H)	5 racks
LW5750N	100-Position Freezer Rack, Natural	142 x 142 x 54mm (W x L x H)	5 racks

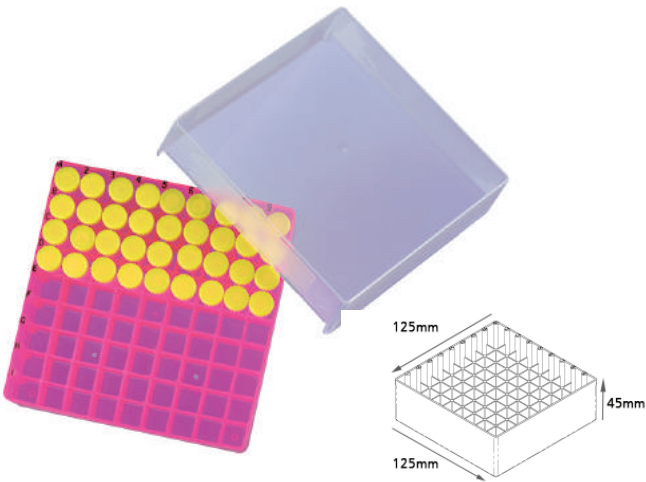
* Single colours available. Please see our website.

81-position Freezer Rack

A great replacement for cardboard freezer-boxes. The base is available in various colours and the push on lid is clear to allow easy sample viewing, with two frosted writing panels. Clear marked indexing allows fast identification and location of your sample tubes.

Now also available as a free-form box without divisions for storage of various sized tubes and storage vessels.

- 81 x 1.5/2.0ml microtubes, or 1.2ml cryovials
- Temperature range -90C to +120C
- Lift-off clear lid



81-position Freezer Rack			
Catalogue Number	Description	Dimensions	Pack Size
LW5700	81-Position Freezer Rack with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5700AS*	81-Position Freezer Rack with Lid, Assorted	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5710	Free-form Freezer Box with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 boxes

* Single colours available. Please see our website.

15ml/50ml Freezer Racks

A robust and durable alternative to Styrofoam or card racks for 15ml or 50ml tubes. The indexed grid together with the clear lid provide you with ease of use in tube identification and location. To complement this further, the racks have two opposing-face, write-on surfaces, and a pull tab to aid removal from the freezer.

- 36 x 15ml tubes or 16 x 50ml tubes
- Maximum tube diameter 18mm for 15ml tubes and 30mm for 50ml tubes
- Stamped indexing
- Temperature range -90C to +121C
- Maximum tube height 121mm



15ml/50ml Freezer Racks			
Catalogue Number	Description	Dimensions	Pack Size
LW5760	15ml Freezer Rack with Lid, Green	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks
LW5740	50ml Freezer Rack with Lid, Blue	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks

Tube Storage Racks

Cryogenic Storage

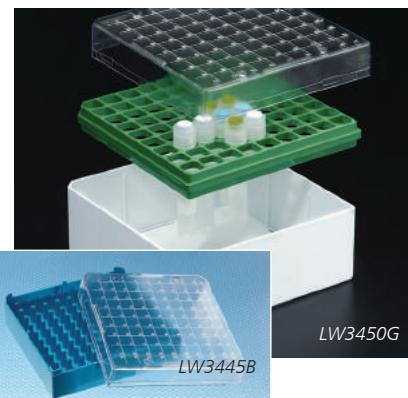
Cryoboxes

Made of extra-strong polycarbonate, these durable cryogenic storage boxes are designed to be used at temperatures between -196°C and +121°C. Three different models are available to accommodate 25, 81 or 100 cryogenic vials from 1.2 to 5ml.

A transparent cover allows the user to see the contents of the box and is keyed to the base to prevent misalignment. Printed with a series of squares (numbered from 1 to 25, 1 to 81 or 1 to 100) the surface accepts writing with markers, facilitating inventory control.

The 25 and 81 place Cryoboxes have unique coloured plastic grids to separate the cover from the base. For 100-place boxes, a coloured base instead of a grid is used. An innovative vial-picker is supplied with each storage box for quick removal of vials.

- Stackable
- Four colours available for better colour-coding
- Drain-holes under base
- Made to fit metal racks
- Air-vents minimise condensation
- Temperature range -196°C to +121°C
- Vials visible through transparent cover



supplied
with
vial
picker

-196°C
+121°C

121°C
autoclavable

Cryoboxes

Catalogue Number	Description	Dimensions	Pack Size
LW3455B*	25 Position Cryobox 1.0 - 2.0ml Vials, Blue	76 x 72 x 52mm	8 boxes
LW3440B*	81 Position Cryobox 1.0 - 2.0ml Vials, Blue	133 x 133 x 52mm	4 boxes
LW3450B*	81 Position Cryobox 3.0 - 5.0ml Vials, Blue	133 x 133 x 95mm	5 boxes
LW3445B*	100 Position Cryobox 1.0 - 2.0ml Vials, Blue †	133 x 133 x 52mm	4 boxes

* Other colours available. Please see our website. † Only suitable for internally threaded cryovials

Cryogenic Vial Workstation

Made from durable polypropylene, each rack will securely hold up to 50 vials.

Each Well houses an integral locking ring that couples with the locking base of all our free-standing cryogenic vials to prevent it from rotating when unscrewing the cap – perfect for when your other hand has a pipette in it!

- Anti-skid rubber feet for safety
- 50 alpha-numerically indexed vial positions
- Tough polypropylene construction ensures durability
- Strong handles make racks easy and safe to carry



Cryogenic Vial Workstations

Catalogue Number	Description	Pack Size
LW3400B	Cryogenic Vial Workstation, Blue	4
LW3400R	Cryogenic Vial Workstation, Red	4

Cryogenic Vial Storage Canes



These strong, durable storage canes are made from aluminium and can accommodate up to five 1.2 or 2.0ml internally threaded cryovials. They allow convenient storage in liquid nitrogen vessels such as Dewar flasks.

Cryogenic Vial Storage Canes

Catalogue Number	Description	Pack Size
LW3430	Storage Cane, 290mm long	12

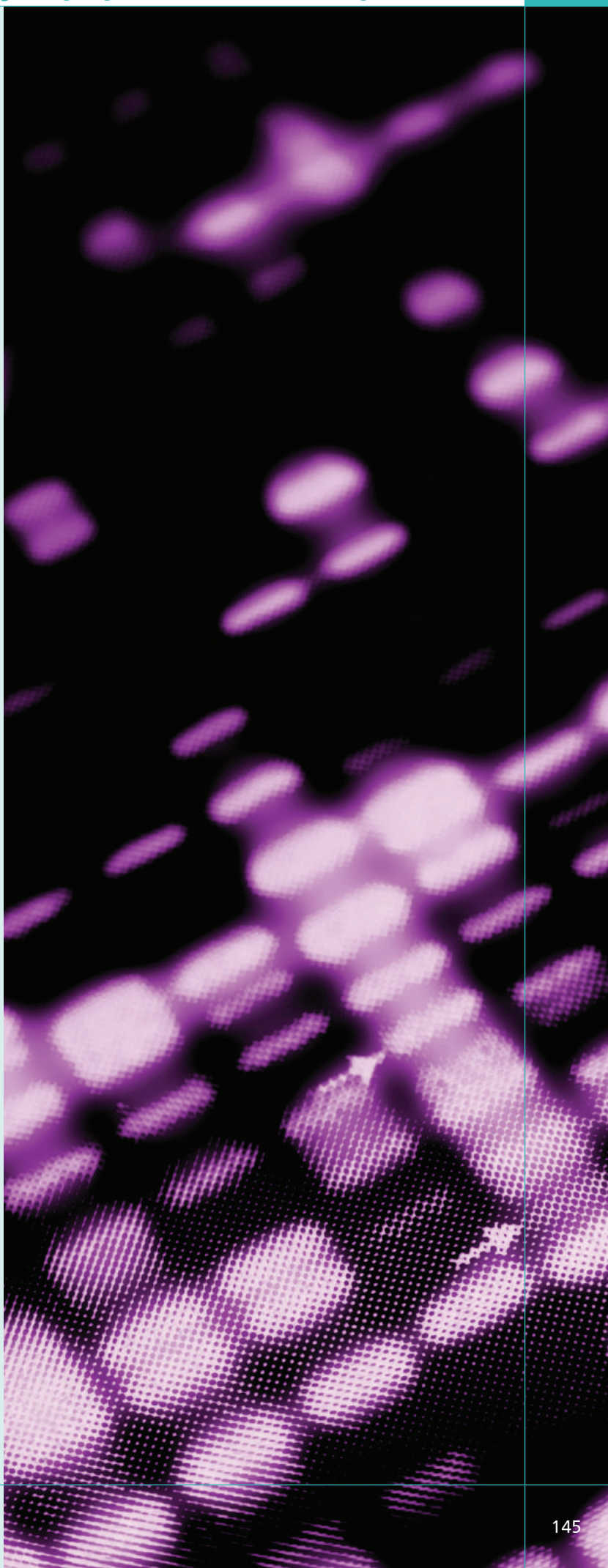
Clearly Better Resolution

The Alpha Laboratories Clarit-E® range of innovative electrophoresis equipment continues to expand, providing you with a wide choice of tools to suit your separation needs.

Horizontal gel tanks in a variety of sizes offer the ultimate level of flexibility and the vertical modular systems, provide a complete solution for protein work.

Power supplies, gel documentation systems, blotting, plus more specialised equipment, enhance the range with the ability to support most applications.

Contents	Page/s
Horizontal Gel Systems	146-153
DNA-View Electrophoresis System	154
Vertical Gel Systems	156-164
DNA Sequencing Unit	160
Modular Systems	161-162
Blotting Systems	163-165
Gel Drying	165
Power Supplies	166
Transilluminators	167
Gel Documentation	168
Gel Cutting Tips	168



Clarit-E®

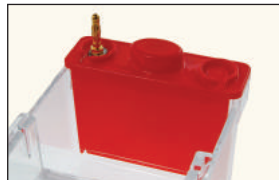
Horizontal Gel Systems clearly better resolution.

- **Injection Moulded Construction** – durable, leak-proof environment for complete safety and long life
- **Cassette Type Electrodes** – inexpensive, easy to replace. Made of 99.99% corrosion resistant, pure platinum
- **Electrical Safety** – lid can be located in one way only. On removal, power is disconnected from the buffer chamber
- **Multiple Gel Trays** – eliminate the need for additional gel tanks

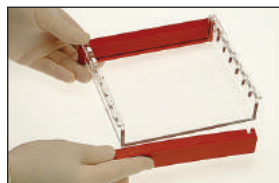
Easy Click Lid Removal



Cassette Type Electrodes can be easily replaced by the user



"Plug and go" gel casting



Casting dams allow gels to be rapidly cast externally while the Clarit-E™ unit is in use for gel running.



Flexicasters allow the casting of varying gel lengths simply by locking the moveable dam. Adjustable feet and level bubble allow gels of uniform thickness to be poured.

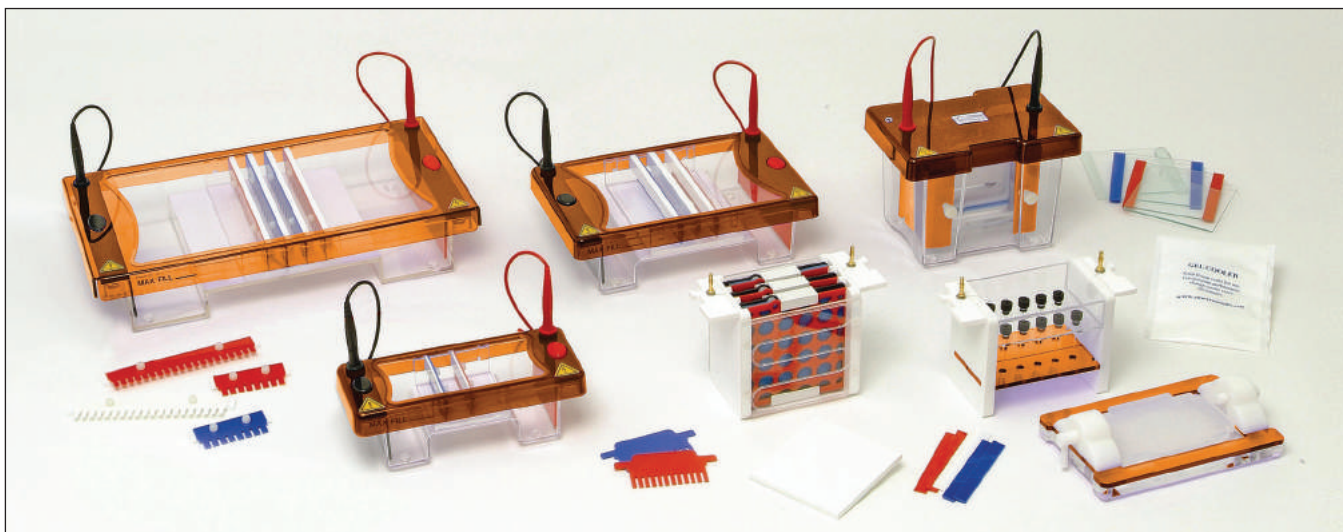


Trays are UV transparent. White PVC platform cover and red loading guides can be optionally applied to enhance Well visibility. Gel trays are free of indentations or casting gate channels, which can interfere with sample progression.



UV transparent Gel Scoops, available for each unit size, offer a safe and easy way to transport gels to a UV Transilluminator.

A complete range of accessories and combs are available. Please visit our website for full details.



The Clarit-E series of horizontal gel units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available.

All units offer unsurpassed economy of gel and buffer volume, with gel size and sample number versatility. This eliminates the need for multiple gel tanks for changes in gel size or application.

All units contain removable UV transparent trays. Gel size and sample number requirements can be exactly matched in each unit as systems are available with one, two or three tray options (dependent on model). Easy to use, leak-proof 'plug and go' gel casting dams are included as standard to allow gels to be rapidly cast whilst the Clarit-E unit is in use for gel running. Traditional tape casting can be used, should this be preferred.

Although lid connectors are compatible with most major power supplies, adapters are available to provide complete compatibility.

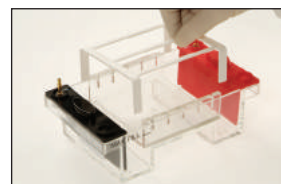
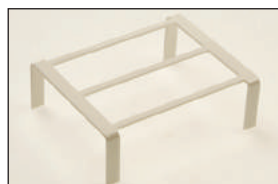


Corrosion resistant gold plated terminals

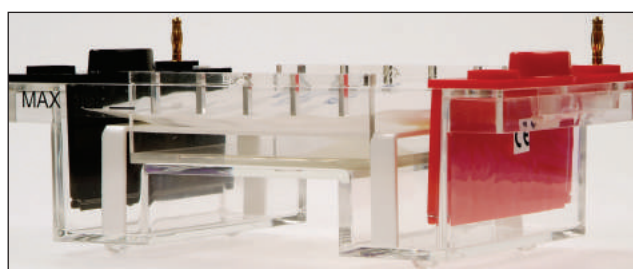


Retractable connectors compatible with most major power supplies.

High efficiency horizontal gel cooling



Removable gel table allows a Coolpack to sit above the gel in buffer offering enhanced gel resolution and faster run times.



Extensive range of combs

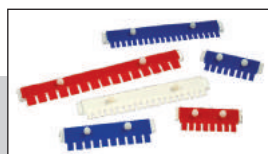
Four thicknesses, colour coded:

- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

Options for sample prep

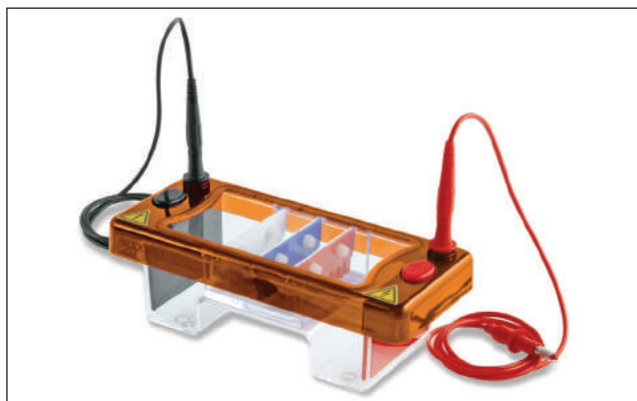
Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.



CE All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

Clarit-E® Mini Horizontal Gel Tank



- Available with 7 x 7cm, 7 x 10cm or with both gel trays
- Economic low gel and buffer volumes
- Small lab bench footprint

Typical application: Designed for quick checks of low to medium numbers of samples.

The Clarit-E Mini is the smallest unit in the range, designed to maximise run economy without compromising versatility as two tray options are available, and combs ranging from preparative up to 16 samples. Maximum separation distance is 9cm.

Technical Specifications

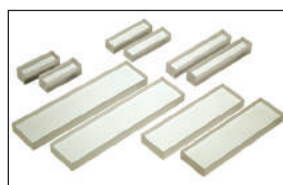
Gel dimensions (W x L)	7 x 7cm, 7 x 10cm
Unit dimensions (W x L x H)	21 x 9 x 9cm
Max. sample: 7 x 7cm tray	32 samples
7 x 10cm tray	64 samples
Buffer volume	225ml
Combs available	1, 2, 4, 8MC, 8, 10, 12MC, 16
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Horizontal Gel Tank

Catalogue Number	Description
EL1000	Mini, 7 x 7cm UV tray, 2 combs, loading guides & dams
EL1100	Mini, 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1050	Mini, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1002	7 x 7cm UV tray
EL1102	7 x 10cm UV tray

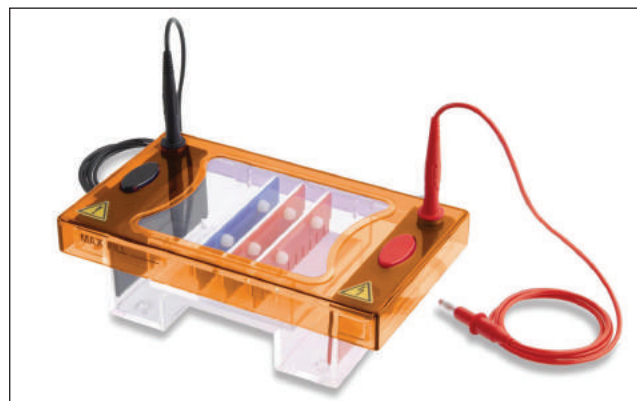


Components of Clarit-E EL1050



Buffer saver blocks are available for all units, which physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost.

Clarit-E® Midi Horizontal Gel Tank



- Available with 10 x 7cm, 10 x 10cm or with both gel trays
- Run up to 100 samples
- Low buffer volumes
- Ideal for rapid electrophoresis

Typical application: Ideal for quick checks of samples from PCR and cloning.

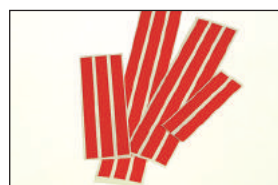
Designed for routine checks of a medium number of samples over short to medium gel lengths. Wider than the Clarit-E Mini it allows more samples to be resolved per gel without a significant increase in buffer or gel volumes.

Technical Specifications

Gel dimensions (W x L)	10 x 7cm, 10 x 10cm
Unit dimensions (L X W x H)	22 x 12.5 x 9cm
Max. sample: 10 x 7cm tray	50 samples
10 x 10cm tray	100 samples
Buffer volume	300ml
Combs available	1, 2, 4, 8, 10MC, 12, 16, 20MC, 25
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Midi Horizontal Gel Tank

Catalogue Number	Description
EL1200	Midi, 10 x 7cm UV tray, 2 combs, loading guides & dams
EL1300	Midi, 10 x 10cm UV tray, 2 combs, loading guides & dams
EL1250	Midi, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1202	10 x 7cm UV tray
EL1302	10 x 10cm UV tray



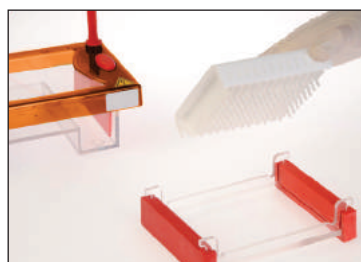
Loading Guides allow easy well identification and sample loading.



Scoops for safe transfer of gels.

Clarit-E® Midi 96 Horizontal Gel Tank

The Clarit-E Midi 96 is ideal for separation of PCR products, or DNA samples containing only a few bands, from 96-Well microtitre plates and thermal cycler blocks.



Rapid Testing –

96 Wells can be cast simultaneously within a single gel in a precise 96-Well microplate configuration.

Rapid Loading – gels can be loaded quickly and easily by 8-channel pipette.

Extended Separation – offset layout of the Wells ensures a longer run length per Well.

High Speed & High Throughput – 96 samples loaded and separated in 15 to 30 minutes without loss of resolution.

Easy Sample Identification – exact configuration of 96-Well microplates allows samples to be quickly and easily identified from original microplates.

Technical Specifications

Gel dimensions (W x L)	10 x 12cm
Unit dimensions (W x L x H)	12.5 x 22 x 9cm
Max. sample	96 samples plus 1 or 2 marker lanes 192 for Midi 96 Double
Buffer volume	300ml
Combs available	8MC + 1 marker lane
No. of samples	8MC + 2 marker lanes
Thickness	1.5, 2mm
Recommended power supply	EL2730

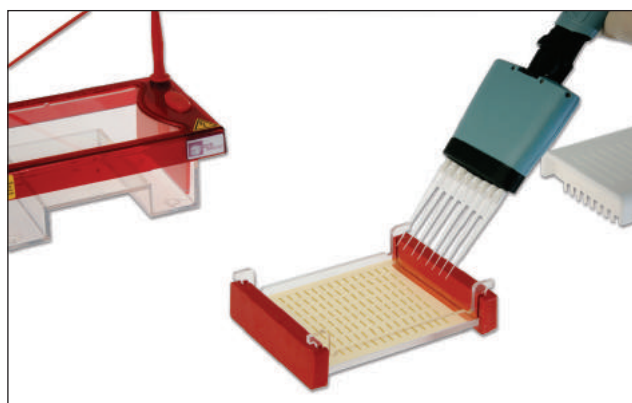
Midi 96 Horizontal Gel Tank

Catalogue Number	Description
EL1350	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 1 marker lane, casting dams
EL1355	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 1 marker lane, casting dams
EL1360	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 2 marker lanes, casting dams
EL1365	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 2 marker lanes, casting dams

Accessories and Combs

Catalogue Number	Description
EL1370	Comb block for EL1350
EL1375	Comb block for EL1355
EL1380	Comb block for EL1360
EL1385	Comb block for EL1365
EL1386	8-sample, 1mm thick comb, 1 marker lane
EL1387	8-sample, 1.5mm thick comb, 1 marker lane
EL1388	8-sample, 1.5mm thick comb, 2 marker lanes
EL1389	8-sample, 1mm thick comb, 2 marker lanes
EL1390	Midi, 96-Well tray

Clarit-E® Midi 96 Stretch Horizontal Gel Tank



The Clarit-E Midi-96 Stretch Horizontal Gel Systems have all the features of the Midi 96 systems with the additional benefit of an extended run length per Well of up to 3.6cm. This allows greater resolution of samples.

Technical Specifications

Gel dimensions (W x L)	10 x 24cm
Unit dimensions (W x L x H)	12.5 x 46 x 8cm
Max. sample	96 samples plus 1 or 2 marker lanes
Buffer volume	700ml
Combs available	8MC + 1 marker lane
No. of samples	8MC + 2 marker lanes
Thickness	1, 1.5mm
Recommended power supply	EL2730

Midi 96 Stretch Horizontal Gel Tank

Catalogue Number	Description
EL1310	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs, casting dams
EL1320	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with one marker lane, casting dams
EL1330	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs with two marker lanes, casting dams
EL1340	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with two marker lanes, casting dams
EL1345	Midi 96 Stretch Double, UV tray, comb block with 24 x 8 sample, 1mm thick combs, casting dams

Accessories and Combs

Catalogue Number	Description
EL1312	Comb block for EL1310
EL1322	Comb block for EL1320
EL1332	Comb block for EL1330
EL1342	Comb block for EL1340
EL1386	8 sample, 1mm thick comb. 1 marker lane
EL1387	8 sample, 1.5mm thick comb. 1 marker lane
EL1389	8 sample, 1mm thick comb. 2 marker lanes
EL1388	8 sample, 1.5mm thick comb. 2 marker lanes
EL1316	Midi 96 Stretch, Tray

Laboratory Equipment - Electrophoresis

Clarit-E® Choice Horizontal Gel Tank



- Three tray options
- Run up to 210 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

Typical application: Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

The Clarit-E Choice offers a wide degree of versatility. Three tray options are available allowing the choice of one, two or all three gel length options at the time of purchase. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified.

Technical Specifications	
Gel dimensions (W x L)	15 x 7cm, 15 x 10cm, 15 x 15cm
Unit dimensions (W x L x H)	26.5 x 17.5 9cm
Max. sample:	20 x 10cm tray 70 samples
	20 x 20cm tray 140 samples
	20 x 25cm tray 210 samples
Buffer volume	500ml
Combs available	1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC,
No. of samples	20, 28MC 30MC, 35 - Choose any two
Thickness	0.75, 1, 1.5, 2mm

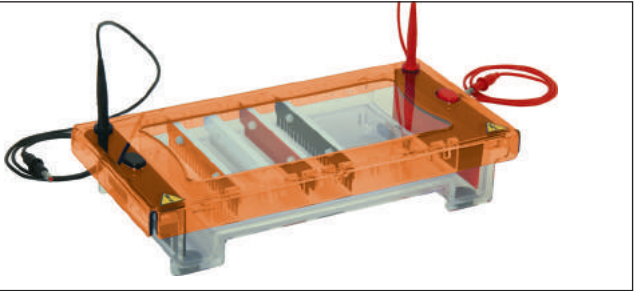
Choice Horizontal Gel Tank	
Catalogue Number	Description
EL1450	Choice, 15 x 7cm UV tray, 2 combs, loading guides & dams
EL1400	Choice, 15 x 10cm UV tray, 2 combs, loading guides & dams
EL1500	Choice, 15 x 15cm UV tray, 2 combs, loading guides & dams
EL1550	Choice Trio, 15 x 7, 10 & 15cm UV tray, 2 combs, loading guides and dams
EL1510	Choice Trio, 3 x 15 x 15cm UV trays, 2 combs, loading guides and dams

Accessories	
Catalogue Number	Description
EL1452	15 x 7cm UV tray
EL1402	15 x 10cm UV tray
EL1502	15 x 15cm tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

Clarit-E® Choice Stretch Horizontal Gel Tank



- Available with 15 x 20cm and 15 x 25cm gel trays
- Run up to 350 samples
- Multichannel pipette compatible combs for speed loading

Typical application: Ideal for higher resolution separations such as separating samples with very similar molecular weights.

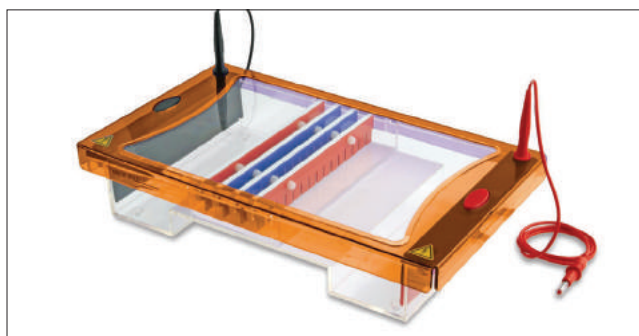
The addition of the stretch Choice units increases the flexibility of this popular range of gel tanks. The extended run lengths allow restriction fragments or other close molecular weight sample bands to be easily separated and identified. The Clarit-E Choice stretch gel tanks are ideal for researchers wanting to perform higher resolution separation of more samples over a longer distance. Speed loading is accomplished using 10, 14, 16, 18, 28 or 30 sample multi-channel pipette compatible combs.

Technical Specifications:	
Gel dimensions (W x L)	15 x 20cm, 15 x 25cm
Unit dimensions (W x L x H)	17.5 x 41 x 9cm
Max. sample:	15 x 20cm tray 280 samples
	15 x 25cm tray 350 samples
Buffer volume	1000ml
Combs available	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC,
No. of samples	20, 28MC 30MC, 35 - Choose any four
Thickness	0.75, 1, 1.5, 2mm

Choice Stretch Horizontal Gel Tank	
Catalogue Number	Description
EL1430	Choice Stretch 20, 15 x 20cm UV tray, 4 combs, casting dams, loading guides
EL1440	Choice Stretch 25, 15 x 25cm UV tray, 4 combs, casting dams, loading guides

Accessories	
Catalogue Number	Description
EL1432	15 x 20cm UV tray
EL1442	15 x 25cm UV tray

Clarit-E Maxi Horizontal Gel Tank



- Available with 20 x 25cm, 20 x 20cm or 20 x 10cm gel trays
- Run up to 550 samples
- Low buffer volumes
- Ideal for extended separations

Typical application: Primarily designed for separating high numbers of samples from PCR or cloning.

The Clarit-E Maxi allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes. It also allows easy sample transfer onto a membrane for further analysis. Multichannel pipette compatible combs facilitate speed-loading.

Technical Specifications

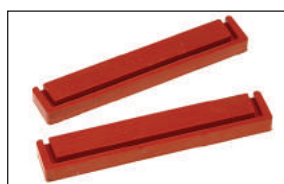
Gel dimensions (W x L)	20 x 10cm, 20 x 20cm, 20 x 25cm
Unit dimensions (W x L x H)	39.5 x 23 x 9cm
Max. sample:	
20 x 10cm tray	200 samples
20 x 15cm tray	350 samples
20 x 20cm tray	450 samples
20 x 25cm tray	550 samples
Buffer volume	1200ml
Combs available	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Maxi Horizontal Gel Tank

Catalogue Number	Description
EL1600	Maxi, 20 x 25cm UV tray, 2 combs, loading guides & dams
EL1620	Maxi, 20 x 20cm UV tray, 2 combs, loading guides & dams
EL1630	Maxi, 20 x 15cm UV tray, 2 combs, loading guides & dams
EL1640	Maxi, 20 x 10cm UV tray, 2 combs, loading guides & dams
EL1660	Maxi, 20 x 20cm & 20 x 10cm UV tray, 2 combs, loading guides and dams

Accessories

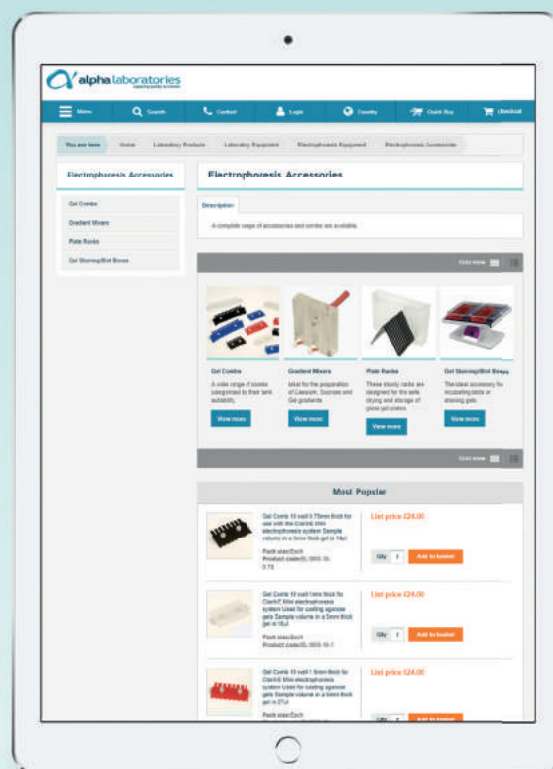
Catalogue Number	Description
EL1642	20 x 10cm UV tray
EL1632	20 x 15cm UV tray
EL1622	20 x 20cm UV tray
EL1602	20 x 25cm UV tray



Casting dams allow gels to be rapidly cast externally while the Clarit-E unit is in use for gel running.

Electrophoresis Equipment
available online at
www.alphalabs.co.uk

Easy Access to All Your
Accessories



Find an extensive range of gel combs, gradient mixers, plate racks etc.

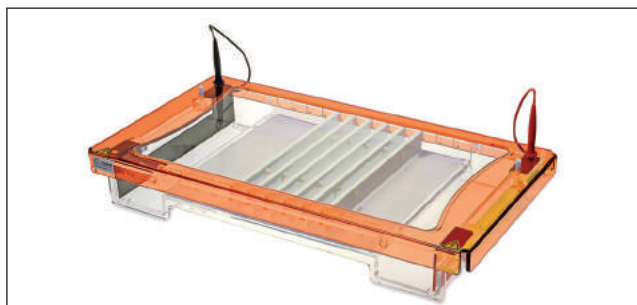
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Laboratory Equipment - Electrophoresis

Clarit-E[®] Screen



- Available with 26 x 16, 26 x 24 and 26 x 32cm or all three gel trays
- Run up to 672 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

Typical application: Ideal for rapid screening of very large numbers of clonal or PCR samples or extended high resolution separations.

The Clarit-E Screen allows loading and analysis of exactly seven 96-Well format micro titre plates.

The large gel run length of up to 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. Buffer recirculation ports are included to allow enhanced resolution over extended runs.

Technical Specifications

Gel dimensions (W x L)	26 x 32cm, 26 x 24cm, 26 x 16cm
Unit dimensions (W x L x H)	50 x 28 x 9cm
Max. sample:	
20 x 10cm tray	672 samples
20 x 20cm tray	504 samples
20 x 25cm tray	336 samples
Buffer volume	1400ml
Combs available	28M, 56MC
No. of samples	Choose any six
Thickness	0.75, 1, 1.5, 2mm

Screen Horizontal Gel Tank

Catalogue Number	Description
EL1800	Screen, 26 x 32cm UV tray, 6 combs, loading guides & dams
EL1820	Screen, 26 x 24cm UV tray, 6 combs, loading guides & dams
EL1840	Screen, 26 x 16cm UV tray, 6 combs, loading guides & dams
EL1860	Screen, 26 x 16, 24 & 32cm UV tray, 6 combs, loading guides and flexicaster

Accessories

Catalogue Number	Description
EL1802	26 x 32cm UV tray
EL1822	26 x 24cm UV tray
EL1842	26 x 16cm UV tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

Clarit-E[®] Fast Mini



- A convenient self-contained solution for routine agarose gel electrophoresis
- Ultra compact
- Low buffer and gel volumes
- Multichannel pipette compatible combs for speed loading

Typical application: For routine, rapid checking of samples.

Perform gel casting, running and analysis in the same unit. The parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base allows direct viewing on a UV Transilluminator with no need for time-consuming transfer and potential gel damage. Dual comb slots.

Technical Specifications

Gel dimensions (W x L)	10 x 8cm
Unit dimensions (W x L x H)	15 x 15 x 4cm
Max. sample capacity	40 samples
Buffer volume	50ml
Combs available	1, 4, 8, 12, 16, 20MC
No. of samples	Choose any two
Thickness	1, 1.5mm

Fast Mini Horizontal Gel Tank

Catalogue Number	Description
EL1700	Fast Mini, 10 x 8cm, 2 combs 1.5mm & casting dams
EL1702	Fast Mini casting dams, pk/2

Clarit-E[®] Comet Assay Tank

This Comet Assay Tank is available for use with 20 standard microscope slides to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantification of DNA damage in cells.



Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay. Following electrophoresis DNA damage may be measured using Comet Assay scoring software.

- For Single Cell Gel Electrophoresis
- Minimise exposure to light and reduce background DNA damage
- High efficiency cooling for enhanced resolution

Single Cell Gel Electrophoresis

Initially back in the 1980's SCGE was used to quantify double-stranded DNA breakages in single cells exposed to irradiation. The technique has since been adapted to analyse specific DNA lesions and repair processes.

Cells are exposed to a genotoxic insult, such as ionising radiation, which results in strand breakage of supercoiled duplex DNA, thereby reducing the size of the large genomic DNA molecules. Following this treatment, cells are suspended within low melting point agarose which is smeared on to a microscope slide to create a thin layer in which the cells are embedded. Cellular protein is then removed by lysis in detergent, and the alkaline conditions promote the unwinding of the DNA in readiness for electrophoresis. The DNA is electrophoresed, stained and then analysed using software.

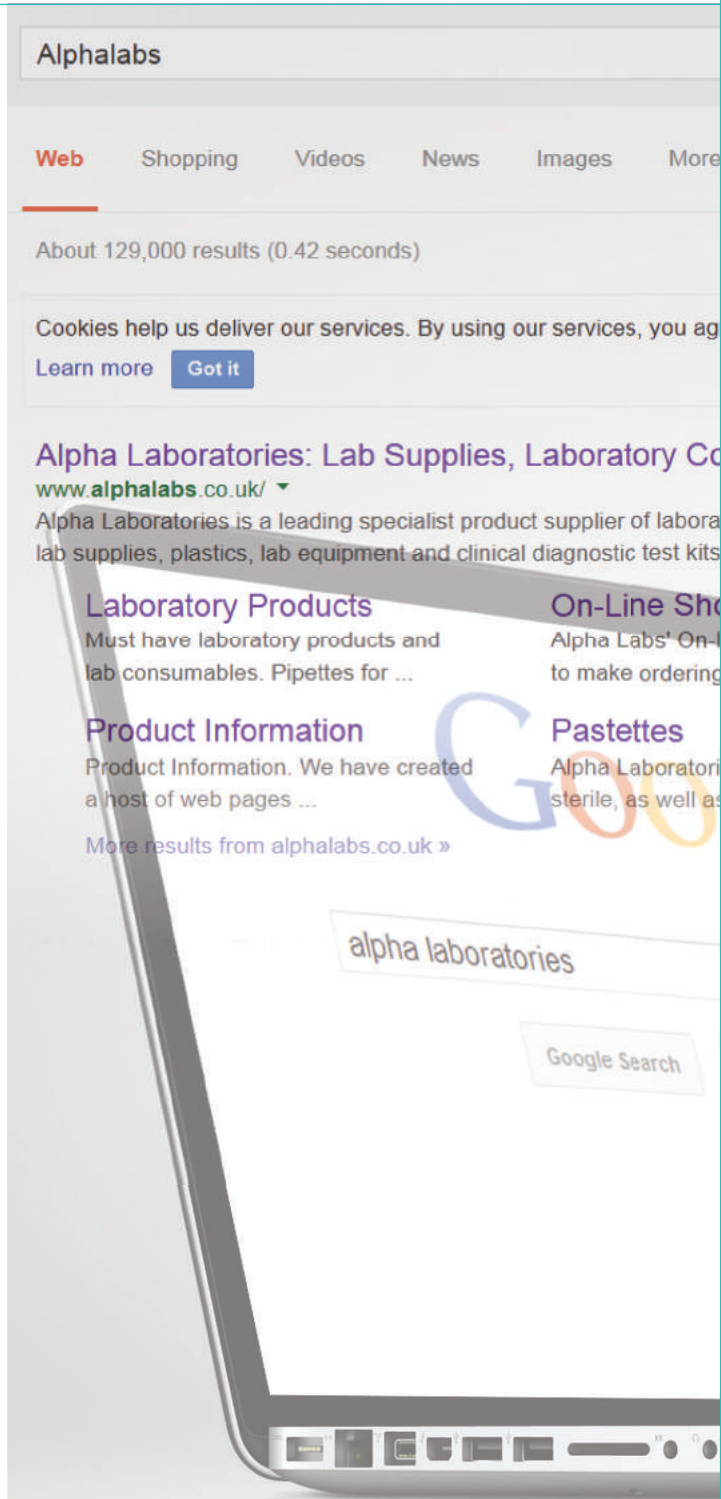
The electrophoresis draws out the DNA fragments and the genomic DNA takes on the appearance of a comet as its negatively charged broken ends and fragments migrate towards the anode during electrophoresis. The head of the comet is mainly composed of intact genomic DNA, whereas any fragmented or damaged DNA is concentrated within and towards the tail. Microscopy imaging is used to measure DNA fluorescence upon staining.

Technical Specifications

Unit dimensions (W x L x H)	31 x 34 x 9cm
Max. sample capacity	20
Buffer volume	1000ml
Recommended Running Conditions	25V/300mA for 1 hour

Comet Assay Tank

Catalogue Number	Description
EL1920	Comet assay tank for SCGE for up to 20 slides



www.alphalabs.co.uk

- Additional Products and Information
- Technical Specifications
- Supporting Literature and videos
- Pricing in local currency for Eurozone and USA
- View your personal pricing once registered
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- Order online
- Ability to share information and much more

Clarity-E DNA-View Electrophoresis System

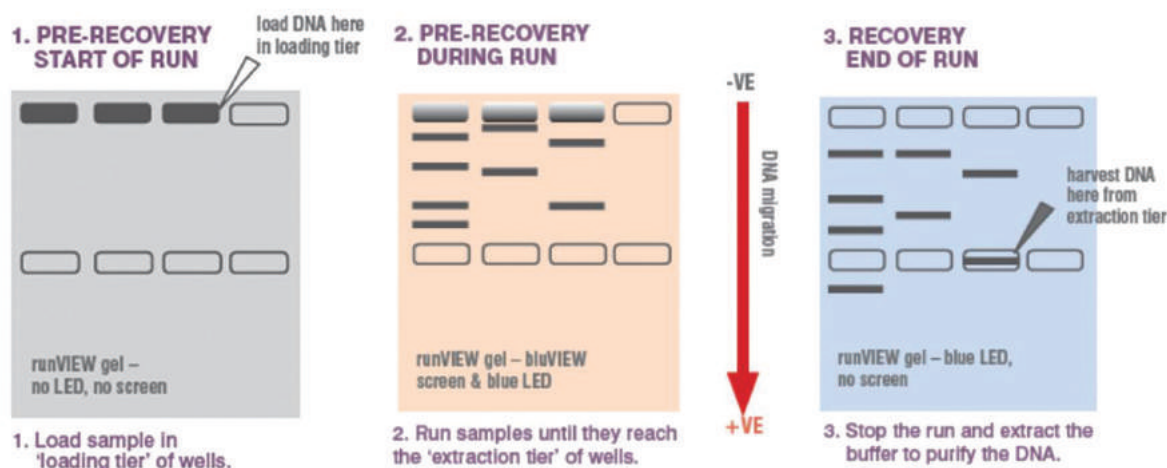
A Safer Alternative to Traditional Electrophoresis

Traditional electrophoresis methods use a combination of harmful UV light and toxic ethidium bromide to visualise DNA samples in a gel. Intense UV light such as that typically used in transilluminators, can cause skin burns and damage to eyes in a very short exposure time. In addition UV can cause cross-linking of DNA and mutagenesis, thereby reducing cloning efficiency. Ethidium Bromide, though still one of the most widely used DNA stains for electrophoresis, is a known carcinogen and mutagen and should always be used with caution.

Blue LED lights can also be used to cause emission of fluorescence although the wavelength is different to UV, and fluorescence is never as strong as more traditional UV and stain combinations. But with safe proprietary stains, and blue LED illumination, it is possible to visualise DNA gels, without the worry of handling harmful chemicals, or exposure to UV light.

The DNA-View system enables you to do this. What's more, the DNA-View system enables you to see your samples separating in real time, and it can even be used to simplify sample recovery by using a 2 tier Well approach.

Built around the versatile Choice Horizontal Gel system, DNA-View comprises a bluView base station which incorporates the blue LED illuminator and power supply. The base station exactly fits the Choice Gel tank which is supplied with a special lid incorporating a light filter and extractor fan which eliminates condensation to optimise visualisation and resolution during electrophoresis. For completeness, a selection of combs are included suitable for gel resolution or sample preparation.



Features

- Versatile, highly compact, self-contained system: for convenience
- Flexible high resolution system: for many different applications
- Integrated tank, power supply and gel illuminator: saves time and space
- Safety for users: no dangerous UV
- Safety for samples: no mutagenesis of DNA, no compromise on cloning efficiency
- Real time visualisation of gel run: no over-runs
- Simplifies DNA elution: simple ethanol precipitation from buffer
- No need for expensive pre-made gels: lab-cast gels work perfectly and save you money
- Current Choice gel tank users upgrade available: cost-effective solution
- Optional Gel Documentation System with 12.1 mega-pixel digital camera
- Complete ready-to-use system excluding chemicals and reagents

Applications

- Resolution of DNA samples
- Simple DNA recovery
- Track DNA without harmful UV
- Save on time-consuming gel elution techniques
- Teaching electrophoresis

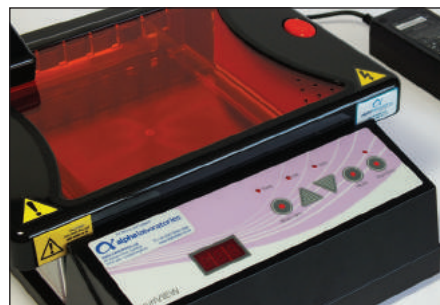
DNA-VIEW

Catalogue Number	Description
EL1560	DNA-View system complete with 15 x 7cm gel tray, 1 set of casting dams
EL1565	DNA-View system complete with 15 x 10cm gel tray, 1 set of casting dams
EL1570	DNA-View system complete with 15 x 15cm gel tray, 1 set of casting dams
EL1575	DNA-View system complete with 15 x 7, 15 x 10 and 15 x 15cm gel trays, 3 sets of casting dams
EL1555	DNA-View base station & bluVIEW lid
EL1580	DNA-View gel documentation hood with 12.1MP camera
EL1585	DNA View Darkroom viewing hood
All DNA-View systems are supplied with 8 double-sided and 4 extra thick preparatory combs	

DNA-View Stain Compatibility

DNA-View Stain Compatibility		Staining Method		
Nucleic Acid Stain	Relative Performance Between Stains	Gel Pre-Staining	Gel Post-Staining	Sample Staining
SYBR® Green I (DNA)	Higher Intensity Bands Observed	✓	✓	✓
SYBR® Green II (RNA)	Higher Intensity Bands Observed		✓	✓
SYBR® Gold	Higher Intensity Bands Observed	✓	✓	
Midori Green Direct	Higher Intensity Bands Observed			✓
Hydra Green™ Safe DNA Dye	Higher Intensity Bands Observed	✓	✓	
HD Green™ DNA Stain	Higher Intensity Bands Observed	✓	✓	
runSAFE	Higher Intensity Bands Observed			✓
SafeView DNA Stain	Compatible -Visible Bands Observed	✓		
SYBR® Safe	Compatible -Visible Bands Observed	✓	✓	
Midori Green	Compatible -Visible Bands Observed	✓	✓	
Midori Green Advanced	Compatible -Visible Bands Observed	✓	✓	
EtBr	Faint Bands Observed*	✓	✓	
SERVA DNA Stain Clear G	Faint Bands Observed*	✓		
HealthView™	Faint Bands Observed*	✓	✓	
GelGreen™	Faint Bands Observed*	✓	✓	
GelRed™	Faint Bands Observed*	✓	✓	

*Compared to the same gel on a UV Transilluminator



Technical Specifications

DNA-View Viewing Dock and System

Blue Light	470nm	Timer	1-999 minutes with alarm
Voltage/ Resolution	25-150V / 1V	Safety Device	No load detection
Current/ Resolution	300mA / 1mA	Operating temperature	Ambient to 40°C
Power	30 W	Dimensions	293 x 220 x 80 mm
Operating Mode	Constant Voltage	Rated Voltage	100-240V, 50/60Hz
Gel Dimensions (W x L)	15 x 7, 15 x 10 & 15 x 15 cm	bluVIEW Lid Design	Orange (EtBr) Amber (runSAFE & SYBR stains)
Built-in extractor fan	Powered by base unit.	Unit dimensions (w x d x h)	26.5 X 17.5 X 9cm
Buffer volume	500ml		
Combs included	2x Comb 1 & 2 sample, 1mm thick 2x Comb 4 & 16MC sample, 1mm thick 4x Comb 20 & 28MC sample, 1mm thick 2x Comb 4 sample 2 Marker, 3mm thick 2x Comb 6 sample 2 Marker, 3mm thick		

N.B. Combs cannot be changed with this system

Supplied with a standard UK 3-pin plug.

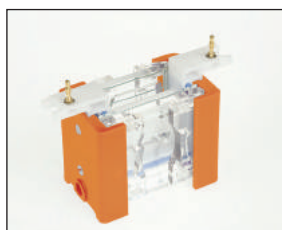
If you require a different style please specify when ordering.

Clarit-E®

Vertical Electrophoresis Systems clearly better resolution.

- **Rapid Gel Casting and Loading** – ensures trouble-free gel set-up
- **Versatile** – modules for slab gel, 2-D electrophoresis and electroblotting using a single universal buffer tank

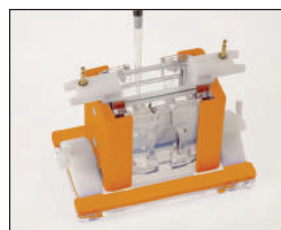
Simple, rapid, leak-proof gel casting (unique sliding gates gel clamping system is only applicable for Mini vertical tank)



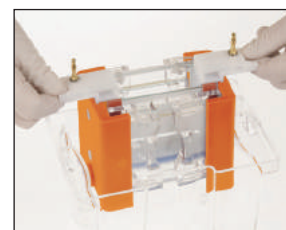
Insert glass plates and slide gates to create efficient seal



Transfer to casting base and tighten cams

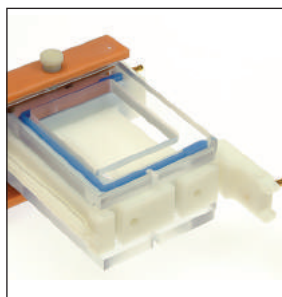


Insert gel solution and comb and allow to polymerise



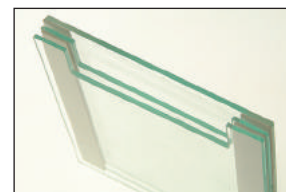
Transfer to tank, fill with buffer and run

Pressure clamping frame



On the Mini gel tank a unique single-piece pressure frame offers the option of rapid single screw per side or new screw-free set up. Even pressure and buffer contact across the plates results in even sample migration and efficient heat removal from the gel. Glass plates are 2mm thick for Mini and 4mm thick for Mini Wide and Maxi tanks to reduce breakage.

Run up to four gels at a time



While most vertical gel units can run only one or two gels, the Clarit-E Mini units can run one, two or up to four gels at any time using a triple glass plate sandwich.

Effective buffer cooling



A simple to use cooling pack system ensures enhanced resolution without costly and time-consuming additional equipment. No chiller, tap or obstructing connecting leads are required. The cooling pack is simply pre-chilled in a freezer and placed in the gel tank. Additionally, the use of cooling packs reduces buffer volume.

Extensive range of combs

Up to five thicknesses, colour coded:

- Purple:** 0.5mm for ultra resolved bands
- Black:** 0.75mm for ultra resolved bands
- White:** 1mm supplied as standard
- Red:** 1.5mm for maximising sample volume
- Blue:** 2mm for maximising sample volume

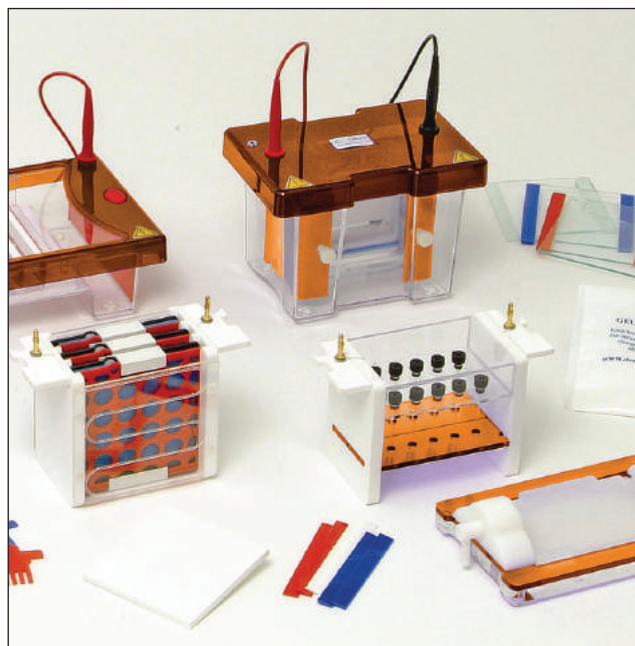
Options for sample prep

Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.



The Clarit-E range of Vertical Gel Units combines ease of use with high resolution separations. Three sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm, share a host of common features including a guaranteed leak-proof seal required for trouble-free, rapid and uncomplicated gel casting. Utilising a built-in gel running module eliminates time-consuming transfer of glass plates following casting - a process which can cause gel damage and misalignment. Glass plates with permanently bonded spacers, guarantee perfect spacer alignment. The glass plate sandwich is simply inserted between pressure bars and a minimum of screws tightened. For the Clarit-E Mini there are no screws to tighten as the unique gel clamping system ensures fast set up times and guaranteed leak-proof gel casting. Following polymerisation, the gel running module is simply inserted into the gel tank for electrophoresis.



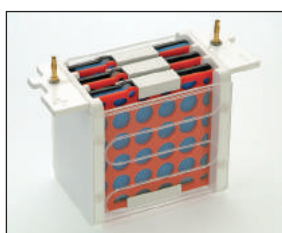
Interchangeable Modules



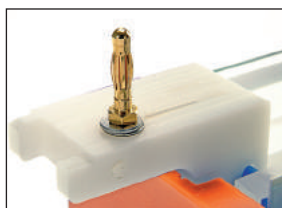
Running Module



2D Module



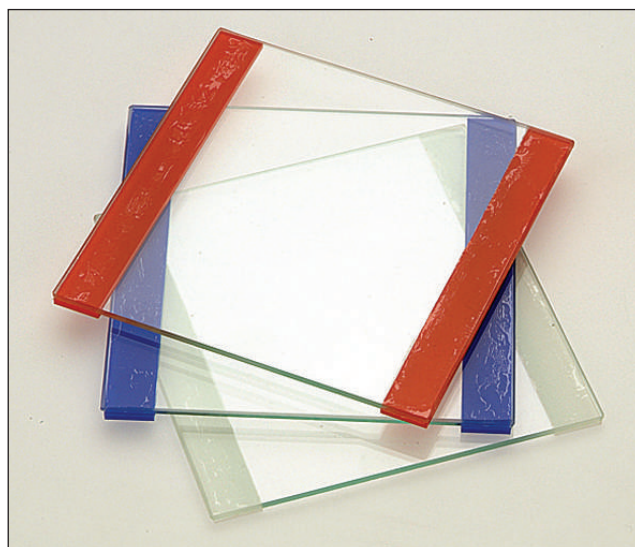
Blotting Module with double-hinged cassettes for added convenience.



Corrosion resistant, 99.99% pure platinum electrodes and gold plated terminals – easily replaced, ensuring minimum repair times.



Retractable connectors compatible with most major power supplies.



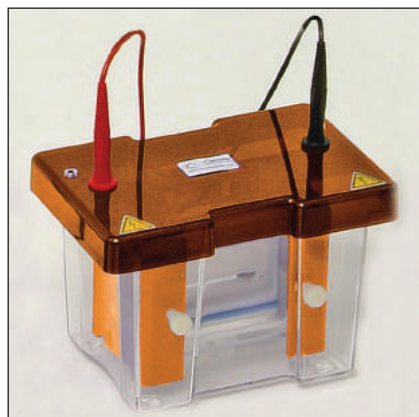
A complete range of accessories and combs are available. Please visit our website for full details.



All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

Clarit-E[®] Mini Vertical Gel Tank

- Injection Moulded construction
- Compatible with all 8 x 10 and 10 x 10cm precast gels
- Low buffer volumes
- Run up to 4 gels

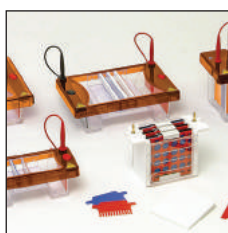


Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.

The preferred unit for routine mini protein electrophoresis, the Clarit-E Mini is constructed using the latest injection moulding manufacturing techniques. This gives a high quality, low cost product with unsurpassed finish, durability and strength.

The running insert has the option of sliding gates or a single screw per side for clamping gels.

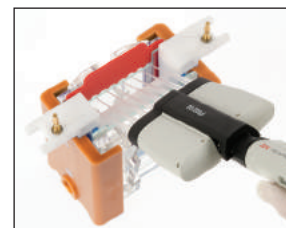
Accessory electroblotting and tube gel modules are available which use the same outer tank and lid. See Modular systems for further information.



Clarit-E Mini and optional accessories



Internal running module



Gel loading guides

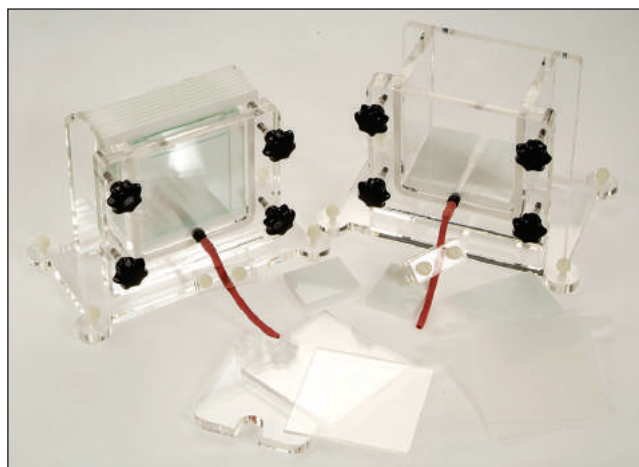
Technical Specifications

Plate dimensions	10 x 10cm
Gel dimensions (W x L)	7.5 x 8cm
Unit dimensions (W x D x H)	19 x 13 x 15cm
Max. sample capacity	80 samples per unit 20 samples per gel
Buffer volume	Min 250ml; Max 1200ml
Combs available	1, 5, 8MC, 9, 10, 12, 16MC, 20
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Vertical Gel Tank

Catalogue Number	Description
EL2004	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate
EL2000	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate and casting base
EL2012	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate, casting base, external casting upstand
EL2190	Mini Quad, 10 x 10cm includes 4 glass plates with bonded 1mm thick spacers, 4 combs, cooling pack, dummy plate, casting base, external casting upstand

Clarit-E[®] Multiple Mini Gel Casting



- Integral levelling feet and level bubble
- Standard and gradient gels can be poured
- Choice of 2, 6, 12 or 24 gel casting models

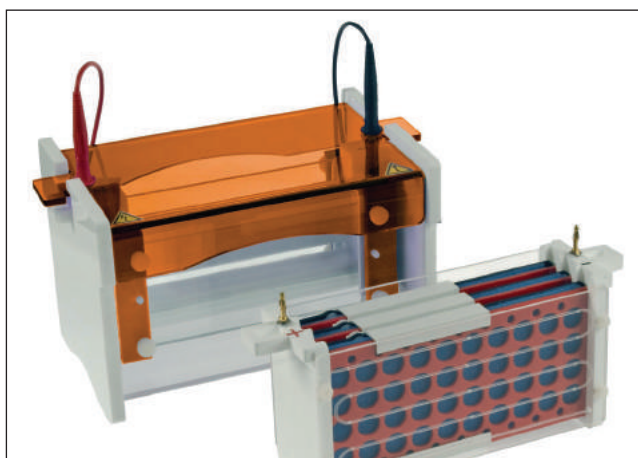
Advance casting of multiple mini gels can help to achieve consistent results between runs. These multiple gel casting systems are tailored for use with Clarit-E Mini vertical electrophoresis units; with three models of 2, 6, 12 and 24 gel capacities. Fewer gels can be poured if required using the acrylic saver blocks supplied with each system.

The fixed hinged clamps allows the gel sandwich to be adjusted to the correct pressure irrespective of the number or the thickness of gels being poured. Separation sheets allow the easy separation of the glass plates after pouring.

Multiple Mini Gel Casting

Catalogue Number	Description
EL2018	2 Gel Caster for 8 x 10cm or 10 x 10cm gels
EL2166	12 Gel Caster for 8 x 10cm or 10 x 10cm gels

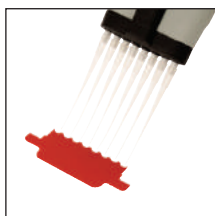
Clarit-E Mini Wide Vertical Gel Tank



- Offers the capacity of two mini gels on a single gel

- Optional low or high buffer volumes

Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.



The Clarit-E Mini Wide vertical gel unit with a gel width of 20cm effectively allows double the number of samples to be resolved as the Clarit-E Mini unit. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve.

Both the Mini Wide and the Maxi system use 4mm thick glass plates which reduce breakage and have bonded spacers for added convenience. A wide range of accessories is available allowing many techniques to be performed using the same unit. Prep combs can be used to maximise sample loading and recovery.

Uses same combs as Maxi systems

Technical Specifications	
Plate dimensions	20 x 10cm
Gel dimensions (W x L)	18 x 8cm
Unit dimensions (W x D x H)	26 x 16 x 16cm
Max. sample capacity	192 samples per unit 48 samples per gel
Buffer volume	Min 600ml; Max 2800ml
Combs available No. of samples	1, 5, 10, 18MC, 24, 30, 36MC, 48 Choose any two
Thickness	0.75, 1, 1.5, 2mm

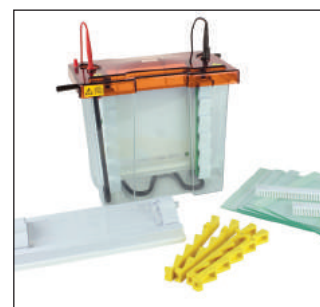
Mini Wide Gel Tank	
Catalogue Number	Description
EL2083	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack
EL2084	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base
EL2086	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base and external casting upstand

Clarit-E Maxi Z Vertical System

- For 20x20cm gels
- More Gels – run 2-4 gels simultaneously in standard 2-gel Maxi Z and 4-gel Maxi Z Tetrad systems

- Customise your system for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit

- Utilise modular inserts with the same universal tank and lid to extend the application of your standard Maxi Z unit to create a complete 2-D or blotting system



The new Vertical Maxi Z System is the latest product innovation for large format vertical gel electrophoresis. Designed to perform a variety of separations, including first and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electro-blotting, the Maxi Z is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the PAGE insert only four screws are now necessary to secure up to four 20 x 20cm gels.

Choose any two combs

Technical Specifications			
Number of gels	1 - 4	Total Volume Inner Buffer Chamber	192 samples, 48 samples per gel
Handcast gels	Using glass plates and combs	Total buffer Volume	5.3L (2 gels) 4.8L (4 gels)
Plate Dimensions (W x H x T)	20 x 20cm x 0.4cm	Standard run time for SDS-PAGE Without Cooling With Cooling	4-5 hours 3-4 hours
Standard Spacer Dimensions (W x H)	2 x 20cm	Recommended power supplies	EV233 for IEF; EL2740 for PAGE; EL2750 for blotting
IPG Spacer Dimensions (W x H)	0.6 x 20cm	Unit Dimensions (W x D x H) Weight	30x18x27cm 2.5Kg

Maxi Z Vertical System for 20x20cm gels	
Catalogue Number	Description
EL2100Z	Maxi Z, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2 combs, cooling coil, dummy plate and Casting Base
EL2102Z	Maxi Z, 20 x 20cm Dual, 2 sets of Glass Plates, 1mm thick bonded Spacers, 2 combs, cooling coil, dummy plate; includes caster and External casting upstand
EL2120Z	Maxi Z, 20 x 20cm Dual vertical system with Glass plates, 2 combs, cooling coil (No casting Base)
EL2110Z	20 x 20cm Dual Casting Base
EL2179Z	IEF conversion kit for 18cm IPG strips and tube gels
EL2177Z	Pair notched 20 x 20cm glass plates with 6mm wide spacers to run IEF strips

Clarit-E[®] Maxi Plus for Second Stage 2-D

The 26cm active gel width provides a large gel area to resolve large IEF strips. In combination with the IEF system, this offers a complete package for 2-D electrophoresis. The unit utilises the Clarit-E advanced design features to provide convenient ease of use with high resolution separations.



Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality. Four gels can be resolved per run. A wide range of accessories are available to allow easy transition between 2-D and standard vertical electrophoresis techniques. In particular different types of 2-D comb allow a wide degree of versatility in sample selection and gel set-up.

Technical Specifications

Unit dimensions (W x H x D)	36 x 33 x 18cm
Unit dimensions (W x L)	30 x 22cm
Gel dimensions (W x L)	28 x 20cm
Max. sample	300 samples per run; 75 samples per gel
Buffer volume	Min 1800ml, Max 8400ml
Combs available	1, 2, 4, 28MC, 56MC, 75
No. of samples	
Thickness	0.25, 0.35, 0.5, 1, 1.5, 2.0mm

Maxi Plus for Second Stage 2-D

Catalogue Number	Description
EL2390	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate
EL2395	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate & casting base
EL2334	Maxi Plus Blot Insert - includes 3 cassettes and 6 fibre pads
EL2318	Dual Caster - Maxi Plus

Clarit-E[®] DNA Sequencing Unit

- Run up to 96 samples
- Enhanced gel heat homogenisation
- Variable low or high buffer volumes
- 20 x 50cm or 33 x 45cm formats



Typical application: DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis.

Ideal for a variety of large format vertical gel applications, these units offer advanced features for enhancing gel resolution and ease of use, essential when handling gels of this size. Each unit contains ultra soft silicone seals for easy plate sealing and trouble-free runs, even over extended run times.



Resolution is enhanced by using an aluminium heat sink plate, which is essential for even sample migration.

Added convenience is provided by a removable lower buffer tank and upper buffer drainage tap.



Special buffer chambers allow either low buffer volumes to be used for economy or high buffer volumes to be used for extended runs.

A wide range of interchangeable comb and spacer options allows a large number of techniques to be easily accomplished.

Technical Specifications

Plate dimensions (W x L)	EL2560 20 x 50cm EL2580 33 x 45cm
Max. sample capacity	EL2560 48 samples EL2580 96 samples
Buffer volume	EL2560 Min 500ml, Max 1000ml EL2580 Min 800ml, Max 2000ml
Combs available: No. of teeth	24, 48, 80, 96
Thicknesses	0.25, 0.35, 1, 1.5mm

DNA Sequencing Unit

Catalogue Number	Description
EL2560	DNA Sequencing Unit, 20cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2580	DNA Sequencing Unit, 33cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2594	Fan heater Sensor Lit for DNA Sequencing Unit EL2560 & EL2580

Clarit-E[®] Isoelectric Focusing



- For IEF strip and gel applications
- Large cooling platform area
- Pick and place easy to position electrodes
- Grid for accurate electrode alignment

The IEF system has been designed to allow the full range of IEF flat bed electrophoresis techniques. These include wick based electrophoresis, precast horizontal IEF gel electrophoresis, hand cast horizontal IEF Gel electrophoresis and Iso Electric focusing using IEF strips. The unit includes enhanced cooling over a large platform which offers increased strip capacity and gel area.

Uniform cooling of the platform is achieved using a large ceramic plate which can be connected to any standard chiller via quick fit connectors for enhanced gel or strip cooling.



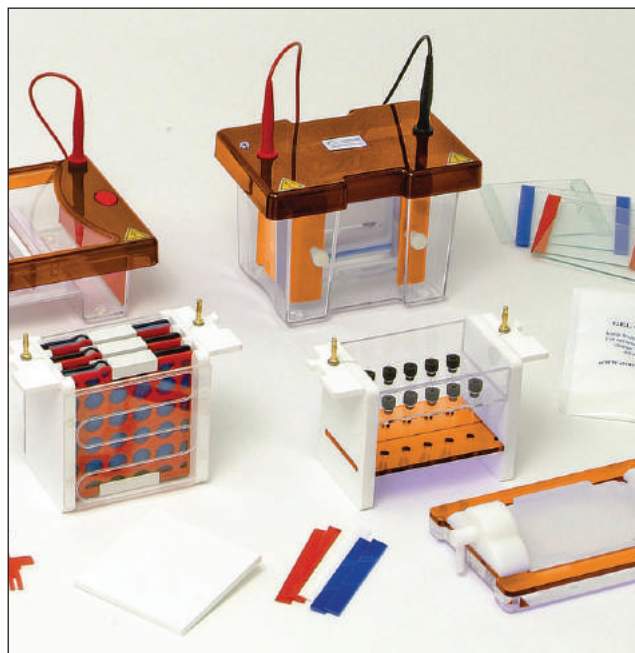
Technical Specifications

Max strip length	26cm
Max. gel dimensions	26 x 26cm
Unit dimensions (W x D x H)	55 x 35 x 10cm

Isoelectric Focusing

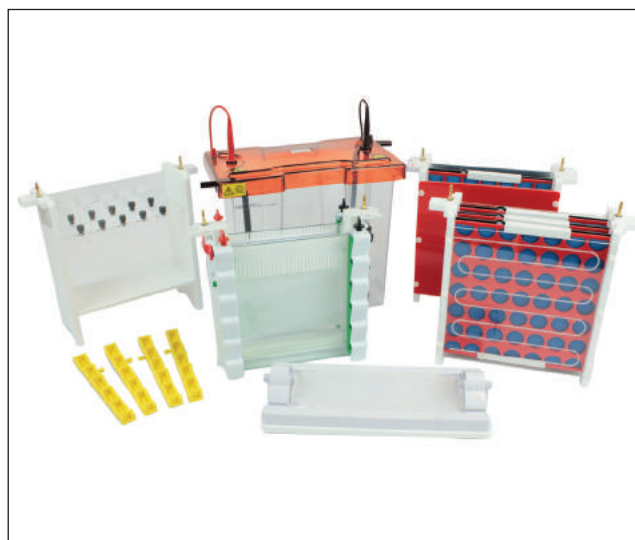
Catalogue Number	Description
EL7000	Flatbed Isoelectric Focusing System, 26 x 26cm
EL7010	Chiller

Clarit-E[®] Modular Systems



- Economy of bench space and cost
- Enhanced reproducibility
- Simple to use casting
- Rapid cooling set-up

The Clarit-E range of Modular Vertical Gel Systems allow multiple electrophoresis techniques to be performed in the same unit. Using the same main tank and lid, three different inserts are interchangeable for slab gel, tube gel and electroblotting techniques. These systems are available in three size options, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm and are available as individual, combination or complete modular systems. Combination and modular systems offer maximum value and space and have the added benefit of increased consistency, which results from using the same universal base and lid.



Laboratory Equipment - Electrophoresis

Clarit-E® Mini, Mini Wide & Maxi complete Modular Systems

These systems include all modules and accessories required for Slab Gel Electrophoresis, 2-D Electrophoresis and Electroblotting. The central component is the Clarit-E Mini, Mini Wide or Maxi Vertical unit. These include a rapid and intuitive casting system, enhanced and easy to set up cooling system and have increased capacity – the Mini can run up to four gels per run. In addition, the Clarit-E Tube gel module is capable of resolving up to 10 first dimension gels and the Electroblotting module has a 3-blot capacity.

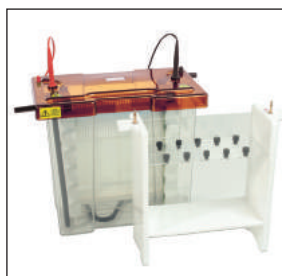
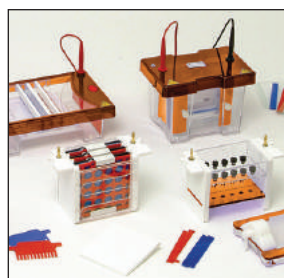
Complete Modular Systems include: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs, spacers, electroblotting module, 3x compression cassettes and 6x fibre pads.

Clarit-E® 2-D Complete Systems

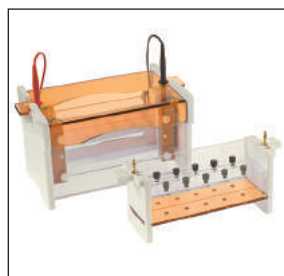
- Rapid set-up electrofocusing
- 10-tube capacity
- Extended accessory range
- Enhanced cooling features

The Clarit-E 2-D Systems include both modules required for Slab Gel and First Dimension Electrophoresis and accessories, to provide a complete Mini, Mini Wide or Maxi 2-D system. The Tube Gel Module includes a rapid release gasket for easy tube extraction. Focusing can be accomplished in as little as three hours in the Mini Unit. Disposable capillary tubes are included for added convenience, plus 2-D combs and spacers, which are colour coded according to thickness for easy identification.

Complete 2-D System comprising: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers.



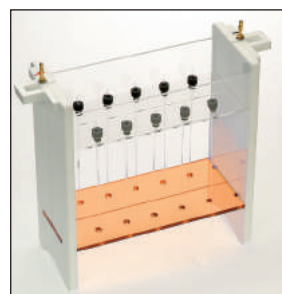
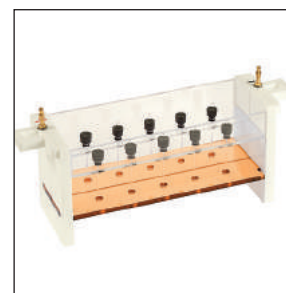
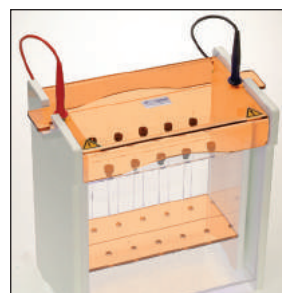
Modules included in the Clarit-E Maxi 2-D system



Modules included in the Clarit-E Mini Wide 2-D system

Clarit-E® Tube Gel Units, Inserts and Accessories

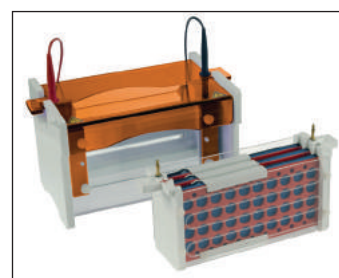
These stand-alone, complete units for first dimension capillary/tube gel electrophoresis are available in 3 sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm formats. Units are interchangeable with Clarit-E slab gel and electroblotting inserts.



Clarit-E Tube Gel Units comprise tank and lid, glass capillary tubes, blanking ports and cooling pack.

Clarit-E® Modular Electroblotting

- Hinged cassettes
- 3-blot capacity
- High intensity electrodes
- Rapid cooling set-up



The Clarit-E Electroblotting Systems include both modules required for Slab Gel Electrophoresis and Electroblotting and accessories, to provide a complete Mini, Mini Wide or Maxi gel casting, running and electroblotting system.

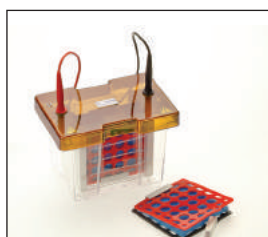
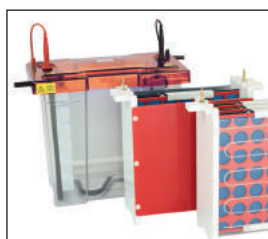
A high intensity current is generated by coiled platinum electrodes. These in conjunction with the advanced cooling features allow rapid electroblotting in as little as one hour.

Clarit-E Modular electroblotting system comprises: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, electroblotting module, 3x compression cassettes and 6x fibre pads.

Clarit-E® Electroblotting Units

- Ideal for Western blotting of proteins
- Open design, rigid cassettes for maximum current transfer

These stand-alone, complete units for electroblotting, Mini, Mini Wide and Maxi formats, include Clarit-E tank and lid, electroblotting insert, cassettes and fibre pads. Units are interchangeable with Clarit-E slab and tube gel inserts. Hinged rigid cassettes allow rapid set up and convenience and ensure even contact between the gel and membrane is maintained.



Technical Specifications

Unit dimensions (W x D x H)	Mini	19 x 13 x 15cm
	Mini Wide	26 x 16 x 16cm
	Maxi	26 x 16 x 28cm
Max. sample capacity	Mini	Slab 80 samples, 20 samples/gel, Tube - 10 tubes; Blot - 3 blots
	Mini Wide	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots
	Maxi	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots
Buffer volume	Mini	Min 250ml; Max 1200ml
	Mini Wide	Min 600ml; Max 2800ml
	Maxi	Min 1200ml; Max 5600ml

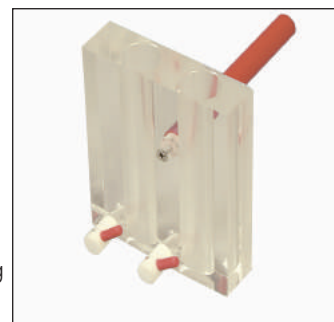
2-D and Electroblotting Modular Systems

Mini	Mini Wide	Maxi	Description
EL2200	EL2250	EL2300Z	Complete Electrophoresis System includes tube gel, blotting and vertical system
EL2320	EL2330	EL2340Z	Complete 2-D Electrophoresis includes tube and vertical system
EL2026	EL2096	-	Tube Gel Unit, with capillary tubes, blanking ports and cooling pack
EL2028	EL2098	EL2128Z	Tube Gel Insert includes glass tubes and blanking ports
EL2030	EL2030	EL2130	Capillary Tubes 1mm diameter
EL2356	EL2356	EL2132	Capillary Tubes 1.5mm diameter
EL2032	EL2032	EL2032	Capillary Blanking Ports
EL2400	EL2450	EL2500Z	Complete Blotting System includes vertical system and electroblotting
EL2402	EL2452	EL2502	Blotting System includes tank, 4 cassettes fibre pads and cooling pack
EL2404	-	-	Gel Tank and Blotting unit
EL2034	EL2114	EL2134	Blotting insert including cassettes and fibre pads
EL2036	EL2106	EL2136	Blotting Cassette
EL2038	EL2458	EL2138	Fibre Pads
EL2400-HI	-	EL2500Z-HI	Complete high intensity blotting system (Vertical system and blotting insert)
EL2034-HI	-	EL2134Z-HI	High-intensity blotting insert inc. cassettes and fibre pads

Clarit-E® Accessories

Gradient Mixers

Ideal for Caesium, Sucrose and Gel gradients these Gradient Mixers comprise two chambers – a reservoir and a mixing chamber with an interconnecting valve. A second valve regulates the output flow from the mixing chamber. All mixers have a flat base which allows them to be placed on a magnetic stirrer. A magnetic stirring bar can be placed directly in the mixing chamber to ensure a constant gradient. The support rod allows the mixer to be fixed to a retort stand for extra stability.



Gradient Mixers

Catalogue Number	Description
EL2600	15ml Gradient Mixer
EL2610	25ml Gradient Mixer
EL2615	50ml Gradient Mixer
EL2620	100ml Gradient Mixer
EL2625	500ml Gradient Mixer

Plate Racks

These sturdy racks are designed for safe drying and storage of glass plates. The small rack can hold up to 20x 2mm thick plates while the larger rack can accommodate up to 10x 5mm thick glass plates.



Plate Racks

Catalogue Number	Description
EL2630	Mini Glass Plate Rack for 20 x 2mm plates
EL2640	Large Glass Plate Rack for 10 x 5mm plates

Gel Staining/Blot Boxes

The ideal accessory for incubating blots or staining gels.

The smallest box has dimensions of 9.1 x 6.6cm and a capacity for 3-5ml of solution and is perfect for incubating cut blot strips.

The next box in the range holds 6-10ml of solution and is appropriate for mini gels and blots up to 11.7 x 8.9cm.

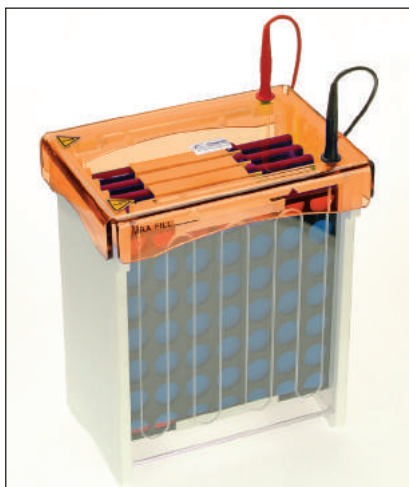
Two larger boxes, available in single packs, can be used for staining gels or incubating blots up to 12 x 12cm or 20 x 16.5cm respectively.

Blot boxes

Catalogue Number	Description	Pack Size
EL9082	Gel/Blot box 9.1 x 6.6cm	10
EL9084	Gel/Blot box 11.7 x 8.9cm	10
EL9086	Gel/Blot box 12 x 12cm	Each
EL9088	Gel/Blot box 20 x 16.5cm	Each

Clarit-E Tank Sub Electroblotters

- Ideal for wet electroblotting of proteins – Western blotting
- Up to five gel blot cassettes utilised at any one time
- Hinged cassettes for added convenience
- Accommodates gel thicknesses from 0.25 up to 3mm



Tank Sub Electroblotters offer a combination of increased capacity with money saving features. Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems. This is especially useful in high throughput laboratories.

A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.

Technical Specifications

Unit dimensions (W x D x H)	Mini	19 x 13 x 19cm
	Maxi	24 x 16 x 26cm
Max. sample capacity	Mini	5 Blots, 10 x 10cm
	Maxi	5 Blots, 20 x 20cm 20 Blots, 10 x 10cm
Buffer volume	Mini	Min 1400ml; Max 1500ml
	Maxi	Min 4300ml; Max 6000ml

Tank Sub Electroblotters

Catalogue Number	Description
EL2412	Electro Blot Mini, 10 x 10cm System for five cassettes, with tank and lid, 5x Cassettes, 12x fibre pads and cooling pack
EL2512	Electro Blot Maxi, 20 x 20cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack
EL2036	Tank Blot Mini Cassette
EL2038	Fibre Pads - pack of 6 for Vertical Mini
EL2136	Tank Blot Maxi Cassette
EL2138	Fibre Pads - pack of 6 for Vertical Maxi

Clarit-E Semi-Dry Electroblotters



- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid – Gels from 0.25 up to 10mm thick can be blotted

These Semi-Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes. All units can be used for all types of blotting via uncomplicated set up procedures. Each unit is compatible with their respective Clarit-E vertical gel system. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble-free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions. The two larger format systems are translucent, enabling viewing of the blot sandwich to ensure correct positioning and transfer is occurring. Electrode plates are fully separated to prevent arching or damage.

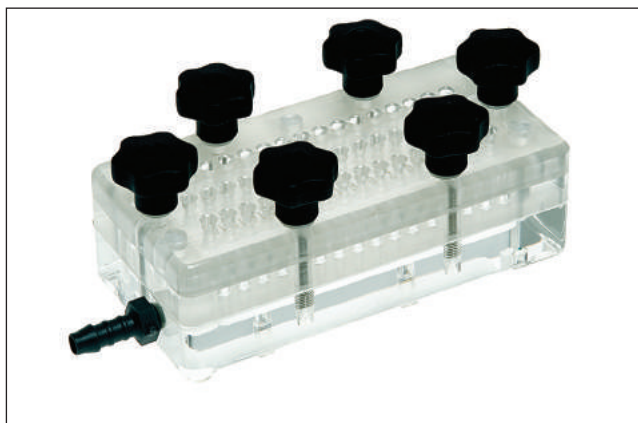
Technical Specifications

Unit dimensions (W x L x H)	Mini	16 x 16 x 7cm
	Maxi	26 x 26 x 7cm
Max. sample capacity	Mini	1 Blot, 10 x 10cm
	Maxi	1 Blot, 20 x 20cm 4 Blots, 10 x 10cm
Buffer volume	Mini	5ml
	Maxi	20ml

Semi Dry Electroblotters

Catalogue Number	Description
EL2460	Semi Dry Mini Blotter 10 x 10cm system
EL2465	Semi Dry Maxi Blotter 20 x 20cm system

Clarit-E® Dot and Slot Blotters

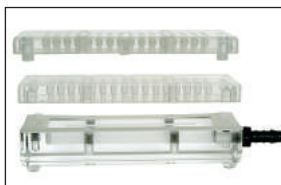


- Low cost
- Simple construction
- Easy assembly
- Alphanumeric sample identification

Four different sample number size and styles of Hybridisation Manifold are offered: 48- or 96-Well dot blotter and 24 or 48-Well slot blotters.

Typical applications include clone screening with DNA/ RNA probes in Southern/Northern blots and immunological screening with antibodies in western blots.

The units incorporate precision lapped surfaces to ensure uniform blotting membrane contact and a leak-proof gasket. These prevent lateral transfer of samples – smudging – by ensuring that a complete vacuum is formed. Six thumbscrews ensure even and tight sealing for fast sample suck down.



Technical Specifications

Model	EL2448	EL2496	EL2524	EL2548
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of Well	6mm dia. 12mm deep	6mm dia. 12mm deep	6 x 0.5mm 12mm deep	6 x 0.5mm 12mm deep
Vacuum required	600mg Hg 0.8 BAR with cold trap			
Unit dimensions (W x L x H)	60 x 95 x 100cm	60 x 105 x 140cm	60 x 74 x 83cm	60 x 95 x 100cm
Membrane sizes required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Dot and Slot Blotters

Catalogue Number	Description
EL2448	Dot Blotter 48 sample
EL2496	Dot Blotter 96 sample
EL2524	Slot Blotter 24 sample
EL2548	Slot Blotter 48 sample

Clarit-E® Gel Drying

Dryer

With a drying area of 21 x 31cm, the Midi gel dryer can dry six 10 x 10cm gels or a single larger gel. The Maxi Gel Dryer with a 35 x 45cm drying area can dry twelve 10 x 10cm mini



gels simultaneously. The unit's microprocessor controls temperature and time, each parameter being displayed on its own LED display. The gels are heated from the base plate while the vacuum removes the moisture from below to dry the gel homogeneously. These dryers feature optimal sealing using a silicone rubber cover and supporting mask.

Technical Specifications

Dryers -	
Temperature Increment	0.1C
Temperature Calibration	Yes
Temperature Uniformity	0.2C
Timer	1-999 mins
Drying area	Midi 21 x 31cm, Maxi 35 x 45cm
Operating Temp. Range	Ambient to 90C
Dimension (W x L x H)	Midi 30 x 36 x 8cm, Maxi 44 x 50 x 8cm
Pump -	
Condenser vapour capacity	1.5L
Dimensions (W x L x H)	35.5 x 28.5 x 39cm

GelMaster™ Vacuum Pump

- Two pumps in one – vapour trap and high efficiency diaphragm pump
- Environmentally friendly – traps and contains vapours



The room temperature vapour trap acts as a pump by condensing the hot vapours from the gel dryer and trapping them from the rest of the systems. The high efficiency diaphragm pump, delivers a powerful, non-fluctuating vacuum for fast, smooth drying. GelMaster™ is so efficient it can be connected to 3 gel dryers simultaneously. 10-15 gels can be dried before the trap needs to be drained. The GelMaster™ trapping medium can be used repeatedly.

Gel Drying

Catalogue Number	Description
EL8800	Midi Gel Dryer 220V, 21 x 31cm
EL8810	Maxi Gel Dryer 220V, 35 x 45cm
EL8815	Gelmaster Vacuum Pump
EL8830	Cellophane sheets for gel drying (30 x 30cm) - pack of 100
EL8835	Cellophane sheets for gel drying (35 x 45cm) - pack of 100

Clarit-E[®] Maxi and Midi Power Supplies



These 3 models of power supply cater for a wide range of applications. All 3 models have 5 output pairs, and can have voltage, current or power set as the constant parameter. Loaded with pre-set programmes for instant start up, or create and save your own protocols with up to 6 steps per programme. A 2.4" TFT-LCD Screen displays the current running parameters and allows the user to browse pre-set and saved protocols.

The convenient pause/resume key allows any run to be temporarily halted for inspection of the gel and restarted from the same position. A run time extendable to a maximum 999 minutes in constant mode is also useful for overnight transfers undertaken at constant low current in wire electrode systems.

Midi300

The Midi300 is a versatile multi-function power supply suitable for a wide range of electrophoresis applications. At 300V, 700mA and 150W the Midi300 has nearly twice the current and power of the market leading equivalent unit. Perfectly suited for use with the Clarit-E range of horizontal electrophoresis systems and Clarit-E Mini vertical electrophoresis systems.

Maxi500

With a maximum 500V, 800mA and 300W voltage, current and power output, the Maxi500 is an excellent general-purpose power supply that fits the broadest range of electrophoresis applications. Perfect for techniques that benefit from subtle and gradual stepwise changes in the electrical parameters as the run progresses, such as DGGE and large format vertical PAGE using Clarit-E Maxi Z electrophoresis systems.

Maxi3AMP

At 300V, 3000mA, 300W, the Maxi3AMP is designed for virtually all high current electrophoresis applications. The Maxi3AMP's higher current output capability is perfect for electroblotting units with high-intensity plate electrodes, particularly Clarit-E Maxi Z blotting system, Maxi Z vertical electrophoresis and semi dry blotting systems. Electrotransfers may be performed as timed runs in constant or programmable mode to prevent overheating and buffer depletion.

Technical Specifications

	EL2732	EL2742	EL2752
	Midi300	Maxi500	Maxi3Amp
Output Voltage / Inc.	5-300V / 1V	5-500V / 1V	5-300V / 1V
Output Current / Inc.	1-700mA / 1mA	1-800mA / 1mA	1-3000mA / 1mA
Output Power / Inc.	150W / 1W	300W / 1W	300W / 1W
Output Type	Constant Voltage ; Current ; Power		
Output Pairs	5 pairs for multiple gel tanks		
Display	2.4" TFT-LCD		
Program	Pre-setting; Up to 6-step, 30 programmed files		
Timer	Constant mode: 9999 (min) with alarm Programmable mode: 999 (min) with alarm		
Rated voltage	100-240V		

Maxi Power Supplies

Catalogue Number	Description	Application
EL2732	Midi300 Power Supply, 300V, 700mA, 150W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini
EL2742	Maxi500 Power Supply, 500V, 800mA, 300W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini Clarit-E DGGE Vertical Electrophoresis using Clarit-E Vertical Maxi Z
EL2752	Maxi3AMP Power Supply, 300V, 3A, 300W	Vertical Electrophoresis using Clarit-E MaxiZ Blotting using MaxiZ blotters and semi-dry blotters

Clarit-E[®] Mini-300 and Mini-500 Power Supplies



- Enhanced in-built safety features
- Conspicuous 3-digit LED
- Alarm function
- New wipe-clean polycarbonate housing

Superseding the MINI 150V and MINI 300V, the new Mini-300 and Mini-500 power supplies, offer many of the benefits of the MIDI power pack, for the price of a MINI unit. With enhanced features, such as a maximum constant current output of 400mA, and constant voltage up to 300V or 500V. The Mini-300 is capable of running all Clarit-E horizontal electrophoresis systems and vertical mini gel units, either on a continuous run or timed setting of up to 999 minutes.

The Mini-500 is also suitable to run the Mini Wide and Maxi Vertical units.

The user-friendly interface of the Mini-300 and 500 means adjustment in 1V and 1mA increments is easy, making it perfect for separations where precise settings are required.

Both Mini units have two pairs of parallel power terminals, which can run two electrophoresis units simultaneously, and combined with their ultra-compact size, can save time and bench space. A dual voltage rating ensures full portability, and allows easy transportation between laboratories irrespective of their geographical location.

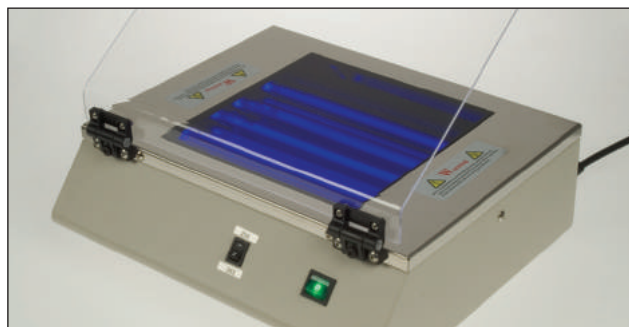
Technical Specifications

Mini	EL2705	EL2707
Voltage	10-300V	10-500V
Current	10-400mA	10-400mA
Max. Power	60W	120W

Mini-300 & Mini-500 Power Supplies and Accessories

Catalogue Number	Description	Pack Size
EL2705	Mini-300 Power supply, 300V, 400A, 60W	Each
EL2707	Mini-500 Power supply, 500V, 400mA, 120W	Each
EL2701	Power supply adapters, 4mm to 4mm	2
EL2702	Power supply adapters, 4mm to 2mm	2
EL2703	Power supply adapters, 2mm to 4mm	2

Clarit-E[®] Transilluminators



- Three wavelength options for added flexibility and convenience: 254/312/365nm
- Two dual-wavelength models
- Long life filter in two size options
- High efficiency reflector
- Hi/Lo intensity switch
- Fast start up

Available in single and dual wavelength formats, in 21 x 21cm and 21x26cm sizes, our transilluminators are supplied either as stand-alone units or with the gel documentation system, as part of a fully integrated system. With a large surface area, each transilluminator serves as the perfect workstation for viewing and working with fluorescently-stained protein and nucleic acid gels.

Standard features include a high/low intensity safety switch and an efficient starter that allows each of the six 8 Watt UV tubes to energise quickly without flickering, prolonging the working life of the UV tubes. Special filter glass minimises unwanted background light. All of these features maximise contrast and sensitivity, allowing even the faintest fluorescent gels to be viewed. Two dual-wavelength models offer added flexibility and convenience.

Technical Specifications

	Small	Large
Filter size	21 x 21cm	26 x 21cm
Light source	8W x 6 tubes	8W x 6 tubes
UV resistant plastic cover (W x D)	33 x 25cm	33 x 25cm
Unit dimensions (W x L x H)	34 x 29.5 x 10cm	34 x 29.5 x 10cm

Transilluminators

Catalogue Number	Description
EL4150	UV Transilluminator small, 21 x 21cm, 254nm
EL4160	UV Transilluminator small, 21 x 21cm, 312nm
EL4170	UV Transilluminator small, 21 x 21cm, 365nm
EL4200	UV Transilluminator small, 21 x 21cm, 254/365nm
EL4210	UV Transilluminator small, 21 x 21cm, 254/312nm
EL4230	UV Transilluminator large, 26 x 21cm, 254nm
EL4240	UV Transilluminator large, 26 x 21cm, 312nm
EL4250	UV Transilluminator large, 26 x 21cm, 365nm
EL4260	UV Transilluminator large, 26 x 21cm, 254/365nm
EL4270	UV Transilluminator large, 26 x 21cm, 254/312nm

Laboratory Equipment - Electrophoresis

Clarit-E[®] Gel Documentation System

- 18 Megapixel digital camera with improved high-sensitivity CMOS sensor and processor
- Image visualised within a large 8" TFT colour monitor
- Light weight compact hood with easy access door and built-in inner lights
- Safety switches disconnect the UV source when the easy access door is opened
- Computer-free operation
- Available on its own with camera and darkroom, or as a complete gel documentation system with transilluminator, either with or without software and wireless memory card



Technical Specifications

Camera Type	Large APS-C CMOS sensor
Effective Pixels	18 megapixels
Maximum Aperture	f/3.5-5.6
Shutter Speed	30-1/4000 sec. (total range)
Filters	+3 Close up and EtBr; optional SYBR green
Storage Media	4GB memory card; optional Wi-Fi memory card
Computer Interface	Hi-Speed USB (Mini-B compatible)
Video Out	NTSC/PAL
Darkroom: Multi-power Source	For camera, inner white LED, TFT screen
Inner White Light	2 x 3W LED
Safety Device	Safety door switch
Weight & Dims	6.1kg; 29 x 22 x 32cm
Voltage Rating	110 ~ 220V
Screen: Resolution	600 x 800 pixels
Brightness	350 cd/mm ²
Constant Ratio	300 : 1
Display Mode	NTSC / PAL / SECAM mode, auto switching

Now upgraded to a new 18 megapixel digital camera with improved high-sensitivity CMOS sensor and the latest image processor to guarantee superb resolution, the Clarit-E Gel Documentation System is the researcher's choice for a simple ultra-compact gel documentation system that meets constraints in both budget and space within the laboratory. A large 8" TFT screen enables images, including agarose and fluorescent gels, colorimetric gels, autoradiography film and blotting membrane, to be captured in colour, clearly and easily. The system is computer-free and supplied with a 4GB storage card and 55mm ethidium bromide filter as standard, while an optional SYBR filter is also available. Files are saved onto the 4GB storage card in RAW, TIFF-RGB and JPEG formats and may be transferred to computer for analysis with the highly recommended TotalLab 1D software.

Wireless Transfer

This clever system includes convenient wireless transfer of images to a PC or smart device – no cable connection required.

The Clarit-E Gel Documentation System is a simple low-cost system comprising a lift-off dark room hood and 18 megapixel digital camera, through which the gel is viewed directly. This system can be supplied with optional TotalLab™ 1D Analysis Software and any one of our 21 x 21cm transilluminators. Transilluminators supplied in single and dual wavelength formats.

Gel Documentation System

Catalogue Number	Description
EL4000	Gel Doc System, including 18 megapixel digital camera, camera adaptor, 8" TFT colour screen, ethidium bromide filter, camera hood
EL4020	Gel Doc System with UV Transilluminator, 254nm
EL4010	Gel Doc System with UV Transilluminator, 312nm
EL4030	Gel Doc System with UV Transilluminator, 365nm
EL4040	Gel Doc System with UV Transilluminator, 254/312nm
EL4050	Gel Doc System with UV Transilluminator, 254/365nm
EL4080	Ethidium Bromide Filter
EL4090	SyBr Green Filter
EL4072	Thermal Printer with USB connection
EL4075	Replacement Paper for Thermal Printer
EL4100	UV to White Light Transilluminator Screen Converter
EL4002*	Gel Doc System with 1D analysis software

* Software can be included with any gel doc system - please enquire for pricing

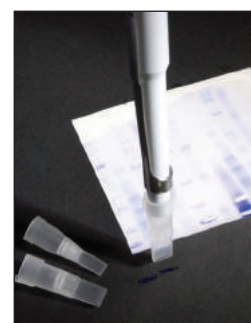
Clarit-E[®] Gel Cutting Tips

A great new tool for Gene Cloning

Rapid, precise and contamination free excision of spots and bands from gels

- Eliminates scalpel damage to transilluminator or gel tray
- Designed for removing bands from agarose and protein gels
- Easy gel slice transfer tips fit standard 1000µl pipettors
- Autoclavable
- DNase and RNase free
- Sterile racked versions are also available

No more scalpels required, these tips offer a unique and convenient way to excise bands from gels. Gel cutting tips allow complete single-handed and contamination-free removal of the gel band of interest. The gel band is neatly extracted and contained in the tip. It can then be simply dispensed into a tube and the used tip ejected and disposed of.



Gel Cutting Tips

Catalogue Number	Description
EL2650	Gel Cutting Tips 4mm x 1mm 250 / bag
EL2650R	Gel Cutting Tips 4mm x 1mm 5x rack of 48
EL2660	Gel Cutting Tips 6.5mm x 1mm 250 / bag
EL2660R	Gel Cutting Tips 6.5mm x 1mm 5x rack of 48

Heat, Cool, Mix, Stir, Separate, Shake

The multitude of tasks undertaken in most laboratories require a range of reliable workhorse equipment.

Having these close at hand on the bench top improves process work flows and efficiencies.

Our range of bench top equipment provides economical, hard-working tools to complete those routine every day tasks with maximum ease.

Contents

	Page
Hotplates and Stirrers	170
Peristaltic Pump	170
Mini 3D Shaker	171
Waver Shaker	172
Vortex Mixer	173
PCR Workstation	174



Hotplates and Stirrers



These hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. Their space-efficient design (20 x 23cm footprint, 19cm square work surface) makes them ideal for use on crowded bench tops and inside cabinets.

Advanced micro-dispenser controls allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LEDs on the front panel indicate when the heating and/or stirring functions have been activated. All three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels.

All models are supplied with a support rod for mounting thermometers and temperature probes.

Technical Specifications

Speed range	60 - 1500rpm
Temperature range	Ambient +5 to 380C
Platform	19 x 19cm
Control	Quick Adjustment Knobs
Dimensions W x D x H	20 x 23 x 11.5cm
Electrical Data	120V, 60Hz / 230V, 50/60Hz
Electrical Data	120V, 60Hz / 230V, 50/60Hz

Hotplate and Stirrers

Catalogue Number	Description	Pack size
EL9000	Hotplate, 19 x 19cm	Each
EL9010	Magnetic Stirrer, 19 x 19cm	Each
EL9020	Hotplate Magnetic Stirrer, 19 x 19cm	Each

Peristaltic Pump

This versatile peristaltic pump is an ideal accessory for gradient gel formation

Peristaltic Pump

Catalogue Number	Description	Pack size
EL9701	Peristaltic Pump 30-300rpm	Each

Technical Specifications		EL9701
Variable Flow Rate		1.2 - 1,140 ml/min
Pump Speed/Inc.		20 - 300 rpm/ 1rpm
Motor		Brushless Motor
Number of Rollers		1
Operating Temperature		Ambient to 40°C
Dimensions W x D x H		20 x 34 x 13cm
Electrical Data		50W, 100V ~ 240V



Mini 3D Shaker

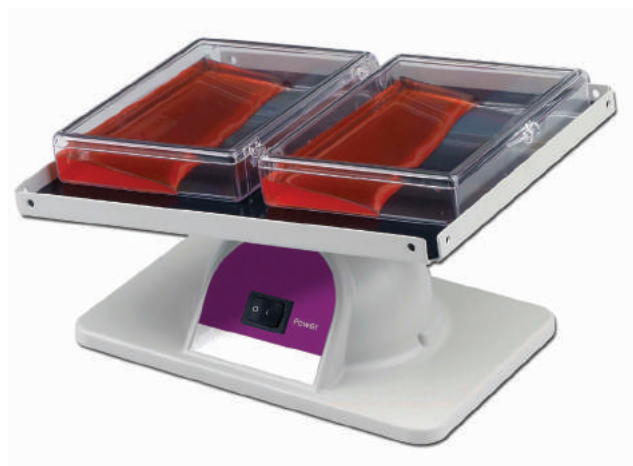
The Mini Shaker combines the motions of orbital shaking and rocking to produce a gentle, but thorough, 3-D action that is perfect for antibody incubation of Western blots and for staining gels.

The pitch and speed are optimised to generate a tilt angle that is large enough to ensure uniform distribution of solutions, yet small enough to prevent the centre of the blot from drying out. This has the added benefit of allowing users to work with minimal volumes, thus conserving valuable probes and antibodies.

A non-slip rubber mat keeps the boxes in place on the agitating platform, which, along with the housing, is very easy to clean and decontaminate after use.

The Mini Shaker's compact and light weight design allows it to be moved around the lab where needed. It is also safe for use in an incubator or cold room for temperature controlled reactions.

- The perfect speed and lift for blotting and gel staining
- Three-Dimensional motion
- Designed for use with Blot Boxes



Technical Specifications

Speed range	18rpm (115V) / 20rpm (230V)
Motion	3-D, nutating
Tilt Angle	5 degrees
Platform Size W x D	20 x 16.5cm
Ambient Operating Range	4 - 65C
Dimensions W x D x H	9.75 x 6.75 x 6in / 24 x 17.15 x 15cm
Weight	0.88kg
Electrical	115 or 230V 50/60Hz

Mini 3D Shaker

Catalogue Number	Description	Pack size
EL9080	Mini Shaker with 20 x 16.5cm tray, 2 x blotting boxes, non-slip mat	Each



Waver Shaker

The Waver Shaker range of multi-functional mixing devices includes high durability models for reciprocal, orbital or rocking model for maximum performance and versatility. Each of the three models provides outstanding uniform motion control. This range of shakers is ideal for bench tops, incubators and in cold rooms.



Take a look at the outstanding features:

- Microprocessor based keypads with digital controls allow simple adjustments
- Display shows preset time, continuous time, action scale and speed
- Lightweight and compact, for easy mobility, super quiet for optimum lab comfort
- High quality, stainless steel platforms include pop-on / pop-off installation holes for securing samples
- Additional platforms can be added for increased capacity



Waver Shaker Orbital

0.1 ~ 10.0 circular ; 0.1 circular increment. Platform 26 x 26cm

Waver Shaker Reciprocal

1 ~ 10 for 2.0 ~ 20 mm ; 1 scale increment, Platform 26 x 26cm

Waver Shaker Rocking

1 ~ 10 for 1.2 ~ 12mm ; 1 scale increment. Platform 26 x 26cm

Technical Specifications	EL9040	EL9050	EL9060
Motion	Orbital	Reciprocal	Rocking
Stroke Length	20mm	20mm	12mm
Operation Mode	Orbital: 0.1 ~ 10.0 Circular: 0.1 Circular	Reciprocal: 1 ~ 10 for 2.0 ~ 20mm; 1 scale increment	Rocking: 1 ~ 10 for 1.2 ~ 12mm; 1 scale increment
Speed	0 ~ 200rpm	0 ~ 200rpm	0 ~ 200rpm
Time	0 ~ 9999mins, 1min increment		
Controller	Digital microdispenser		
Display	4 digital red LED		
Operating	4 ~ 65	4 ~ 65	4 ~ 65
Carry Capacity	15kg		
Special Functions	-	-	-
Platform	W260 x L260mm		
Operating Power	110 / 220V		
Weight	8kg		

Waver Shaker

Catalogue Number	Description	Pack Size
EL9040	Waver Shaker Orbital	Each
EL9050	Waver Shaker Reciprocal	Each
EL9060	Waver Shaker Rocking	Each

Waver Shaker Accessories

Catalogue Number	Description
EL9036	Strip Springs for orbital, reciprocal, or rocking (pack of 2)
EL9037	33 x 33cm platform with 4 of adjustable 10cm or 20cm pillars and flat non-slip rubber mat
EL9039	Strip Springs for 2/3D Combi Shaker (pack of 2)
EL9531	Dimpled Mat 33 x 33cm

Vortex Mixer

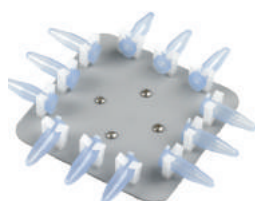
Alpha Laboratories' variable speed Vortex Mixer combines fast, efficient mixing with minimal vibration. Unlike other vortex mixers using elliptical orbits, the true circular orbit facilitates uniform sample vortexing even at low speed.

The CombiCup™ head, which is supplied as standard, accepts many different tube sizes, while the unique over-moulding technology used in its manufacture provides a sturdy plastic core with non-slip TPE that fits optional heads for microplates, microtubes, PCR strip tubes, 15ml and 50ml tubes and blood vials.

The Alpha Laboratories' vortex mixer may be used in 'touch' or continuous mode: 'touch' mode being activated by simply depressing the sample head and then stopped by releasing the pressure. An optimised counter balance system within the vortex mixer minimises vibration and movement of the unit during operation.

Its lightweight construction and small footprint allows it to be readily transported and used in areas where space is restricted. The vortex mixer is also safe for use in temperature-controlled environments, and may be used within a cold room.

- Touch or continuous mode
- Powerful, reliable motor with optimised counter balance
- Circular orbit for effective vortexing at any speed
- CombiCup head accepts a variety of tube sizes
- Versatile head attachment accessories for microplates and different tube sizes
- Suitable for a wide range of applications



Technical Specifications

Speed range	115V: 0 - 3400rpm 230V: 0 - 2850rpm
Operating Modes	Touch or Continuous
Ambient Operating Range	4 - 65C
Dimensions W x D x H	5.5 x 6.3 x 5.1 in/14 x 16 x 13cm
Weight	4.84lb / 2.2kg
Electrical	115V or 230V, 50/60Hz

Vortex Mixer

Catalogue Number	Description
EL5010	Vortex mixer with general purpose head
EL5012	Vortex Head - 32 x 0.2ml tubes or 4 x 8-strip tubes plus 24 x 0.5ml tubes and 24 x 1.5ml/0.2ml tubes
EL5014	Vortex Head - 1 x microplate or 64 x 0.2ml tubes or 8 x 8-strip tubes
EL5016	Vortex Head - 8 x 15ml and 8 x 12/13mm tubes
EL5018	Vortex Head - 6 x 50ml tubes
EL5020	Vortex Head - 12 x 1.5/0.2ml tubes, held horizontally
EL5022	Vortex Head - 4 x 15ml tubes, held horizontally
EL5024	Vortex Head - 2 x 50ml tubes, held horizontally

Mini PCR Workstation

You can eliminate contamination from your PCR reactions and other molecular biology applications with Alpha Laboratories' PCR Workstation, saving time, money and valuable samples. The Mini UV Workstation provides a convenient area for setting up PCR reactions in a nucleic acid free environment, thus limiting PCR reaction contamination.

Acting as a low cost alternative to a clean room, The powerful UV lights on the cabinet denatures nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light. The UV lights themselves are timer controlled and there are safety switches on the cabinet's doors, which turn off the UV lights when opened. The cabinet also acts as an efficient shield from beta radioactive emissions, and can therefore be safely used with isotopes such as ^{32}P .

Small and compact, the Mini UV Workstation is the perfect solution for laboratories constrained by space and budget. A reduced height and footprint allows the Mini UV Workstation to fit snugly and conveniently into those small areas within the laboratory that would otherwise remain unused.

- Inactivates nucleic acids in 5 to 30 minutes
- Doors fitted with safety switches
- Complete with four powerful, timer controlled UV bulbs
- Efficient decontamination of the complete work surface
- Suitable for work with ^{32}P
- For use with trays of size 68 x 54cm
Open base so must be used with a tray
- Dimensions (W x D x H) 560 x 350 x 510mm



Accessories

EL2670 Liners for PCR Workstation 68cm x 54cm

EL2680 General Purpose Tray 68 x 54cm - White

Technical Specifications

UV Lights	4 x 15 Watt
White Light	15 Watt
Dimensions (H x W x D)	510 x 560 x 350mm
Weight	12kg

Mini PCR Workstations

Catalogue Number	Description	Pack Size
UV1000	Mini PCR Workstation (requires additional base tray)	Each

Protective Trays and Liners

Protective spill trays and liners provide safe containment of spillages and lab bench protection.

EL2670 and EL2680 are suitable for use with the Mini PCR Workstation



Protective Trays and Liners

Catalogue Number	Description	Pack Size
EL2661	Tray Liners APET 46x26cm	25
EL2662	Tray Liners APET 54x34cm	25
EL2670	Tray Liners APET 68x54cm for PCR Workstation	25
EL2671	Biohazard Tray 46x26cm, White	Each
EL2672	Biohazard Tray 54x34cm, White	Each
EL2680	General Purpose Tray 68 x 54cm, White, for PCR WS	Each
EL2682	General Purpose Tray 54x34cm, White + APET liner	Each
EL2674	Biohazard Tray 68x54cm, White + APET liner	Each



Product Details	Page No.	Product Details	Page No.	Product Details	Page No.
2D Electrophoresis	154	Clarit-E Power Supplies	158	EveryDay Containers	66
5ml Centrifuge Tubes	57	Clarit-E Screen	144	Everyday Pipette Tips	34
5ml Transport Tubes	68	Clarit-E Transilluminators	159	EveryDay Sample Containers	91
10ml Transport Tubes	68	Clarit-E Vertical Systems	148	eXTReme FoilSeal	125
15ml Centrifuge Tubes	58	Cleaning, Medical Wipes	69	eXTReme Sealing Film	124
15ml Centrifuge Tubes	59	Clinical Trials Kits	102	EZcap General Purpose FilmStrips	118
50ml Centrifuge Tubes	58	CO ₂ Resistant Tubes	60	EZcap PCR Sealing Strips	122
50ml Centrifuge Tubes	59	CO ₂ Resistant Tubes	88	EZ-Pierce Sealing Films	119
60ml Container PS/PE	66	Cobas Mira Consumables	77	Faecal Collection Papers	84,88
80-Position Rack	129	Cold Storage Sealing Films	124	Fastrak Pipette Tips	38
95kPa Containers	66	ColorTab Sealing Films	118	Fe-Col Faecal Collection Kits	84,88
95kPa Pouches for Air Transport	98	Combirack	130	Filter Paper	72
95kPa Pouches for Road Transport	99	Combirack, 32 Position	131	Filters, Pipet-Aid	16
96-Well PCR plates	110	Combirack, 64 Position	131	Filter Tips, Aerogard	42
384-Well Plates	112,115	Combirack, 96 Position	131	Filter Tips, Gel Loading	44
Absorbent Sheets	97	Combirack, Four-Way	130	Filter Tips, Low Retention	42
AbsorbMax Sealing Film	120	Combirack, Junior	131	Filter Tips, ZAP	40
Adhesive Plate Sealing Film	116	Combirack, Twist-Lock	130	Fine Tip, Pastettes	8
ADR Compliant Sample Pouches	99	Complete Mailing System		Fixed Volume Microdispensers	23
ADR Compliant Tubes	90	- UN3373 compliant	101	Fixed Volume Pipettes	14
AeraSeal Sealing Film	119	Containers for Sample Transport	87	Flat Cap Screw-Caps	55
Aerogard Filter Tips	42	Corbett Compatible Robotic Tips	47	FoilSeal RollMate	117
alpha+ Manual Pipettes	14	Coulter Counting Cup	76	Food and Water Testing Kits	104
AlumaSeal CS Sealing Films	120	Counting Cups	76	Freezer Racks	133
AlumaSeal Roll	126	Counting Vials	76	Freezer Racks, 15/50ml	135
AlumaSeal Sealing Film	125	Cryoboxes	136	Freezer Racks, 18mm Diameter Tubes	135
Analyser Cups	76	Cryogenic Storage, Boxes	136	Freezer Racks, 30mm Diameter Tubes	135
Antistatic Weighing Dishes	71	Cryogenic Storage, Canes	136	Freezer Racks, 50 Position	134
APEX 5ml, 15ml & 50ml Centrifuge Tubes	57	Cryogenic Storage, Vials	62	Freezer Racks, 81 Position	135
APEX 15ml & 50ml Centrifuge Tubes	59	Cryogenic Vials	62	Freezer Racks, 100 Position	134
APEX Flip-Cap Microcentrifuge Tubes	52	Cryogenic Vial Workstation	136	Gel Casting, Horizontal Caster	138
APEX Screw-Cap Microcentrifuge Tubes	54	Cryovial Cap Inserts	62	Gel Casting, Vertical Casters	150
Aseptic Container PS/Metal Cap	66	Cryovials	62	Gel Cutting Tips	45,160
Aseptic Container PS/Metal Cap	93	Culture Tools	69	Gel Documentation	160
Aspirator Pastettes	11	Custom Pastette Design	12	Gel Drying	157
Barcoded PCR Plates	112	Cuvettes	77	Gel Loading Tips	44
Beckman Compatible Robotic Tips	46,49	Deep Well Plates	113	Gel Mixing, Gradient	155
Bench Racks	128	Deep Well Plate Sealing Mats	113	Gel Sequencing Pipette	25
Bijou Containers	68	Dialamatic Dispensers	22	Gel Tanks	137
Bijou Containers	92	Digital Microdispensers	22	Gel Viewing	159
Bijou Container SpecSafe Mailing Packs	97	Disease Control Kits	103	Glass Capillary Tubes	23
Biomek Compatible Robotic Tips	46	DNA Sequencing, Electrophoresis	152	Gradient Gel Mixers	155
Blood Tube Closures	65	DNA-View Electrophoresis System	146	Graduated Pastettes	6
Blood Tube SpecSafe Mailing Packs	96	Dot Blotter	157	Health Screening Kits	102
Blotting Systems	154	Drug and Alcohol Abuse Kits	103	Hematocrit Tubes	27
Bottle Top Dispensers	21	Drummond Capillary Pipettes	22	Hitachi Sample Cup	76
BrightMax Sealing Film	120	Drummond Microdispensers	22	Hood Mate	18
Calibrated Micropipettes	27	Drummond Nanoject	28	Horizontal Electrophoresis	138
Capillary Tubes	23	Drummond Pipet-Aid	16	Hotplate	164
Caps, Sample Cups	76	Dual Bulb Pastettes	10	Hybridisation Shaking Incubators	162
Caps, Tubes	65	Electroblotting	154	IATA 95kPa Centrifuge Tubes	60
Captrol III	27	Electronic Pipette Controllers	16	IATA 95kPa Centrifuge Tubes	88
Cell Saver Pipette Tips	44	Electrophoresis	137	IATA 95kPa Transport Tubes	68
Cell Scraper	71	Electrophoresis, 2D	154	IATA Compliant Sample Pouches	98
Centrifuge, Bench Top Microcentrifuge	165	Electrophoresis, Blotting Systems	154	IATA Compliant Tubes	87
Centrifuge Tubes, 5ml, 15ml & 50ml	57	Electrophoresis, DNA Sequencing	152	IEF System	153
Clarit-E Choice Horizontal Gel Tanks	142	Electrophoresis, Electroblotting	154	Insert-Compatible Screw-Caps	55
Clarit-E FastMini	144	Electrophoresis, Horizontal Gel Systems	138	IsoFreeze Racks	133
Clarit-E Horizontal Systems	138	Electrophoresis, Isoelectric Focusing (IEF)	153	Jumbo Pastette	7
Clarit-E Maxi Horizontal Gel Tank	143	Electrophoresis, Modular Systems	153	Key Requirements of UN3373 Regulations	80
Clarit-E Maxi Plus Vertical Gel Tank	152	Electrophoresis, Power Supplies	158	Kit Fulfillment	104
Clarit-E Maxi Z Vertical Gel Tank	151	Electrophoresis, Transilluminators	159	LabMax Bottle Dispensers	21
Clarit-E Midi96 Horizontal Gel Tanks	141	Electrophoresis, Vertical Gel Systems	148	Laboratory Equipment - General	161
Clarit-E Mini Horizontal Gel Tank	140	Electroporation Cuvettes	77	Large Volume Container	
Clarit-E Mini Vertical Gel Tank	150	Essential Centrifuge Tubes	59	SpecSafe Mailing Packs	97



Product Details	Page No.
Leak-proof Containers	66,92
Low Adhesion Microtubes	53
Mailing Bags & Envelopes	101
Mailing Boxes	100
Manual Pipettes	14
Medical Sample Carriers	100
Medical Wipes	69
Membrane Filters	72
Micro Blood Tube SpecSafe Mailing Packs	95
Micro Capillaries	26
Microcaps	26
Microcentrifuge	165
Microcentrifuge Tubes, Flip-Cap	52
Microcentrifuge Tubes, Low Retention	53
Microcentrifuge Tubes, Screw-Cap	54
Microcentrifuge Tubes, Tamper Evident	56
Microdispenser Pipettes	22
Microdispensers	22
Microdispensers, Accessories	23
Microdispensers, Capillaries	23
Microdispensers, Replacement Parts	24
Microinjection Pipette	25
Micro Pastettes	9
Microplates	113
Microplates, 96 Well	113
Microplates, 384 Well	115
Microplates, Sealing Films	116
Micro Slide Boxes	69
Micro Test Tubes for Cobas Mira	77
Microtitre Plates	113
Microtubes, Flip-Cap	52
Microtubes, Low Retention	53
Microtubes, Organised SBS Format	114
Microtubes, Screw-Cap	54
Microtubes, Tamper Evident	56
Midi Centrifuge Tubes	57
Mini 3D Shaker	165
Mini Microcentrifuge Tubes	53
Mini Strip Sealing Film	118
Mixer, Vortex	167
Multichannel Pipettes	15
Multimek Compatible Robotic Tips	46
MultiRack	128
Nanoject Accessories	30
Nanoject II Autoinjector	29
Nanoject III Autoinjector	28
Non-graduated Pastettes	7
NoStick Microcentrifuge Tubes	53
Oocyte Microinjection Pipette	25
Orbital Shaker	166
Organised Microtubes	114
Outer Packaging for Air or Road Transport	100
Outer Packaging for Road Transport	101
Packard Compatible Robotic Tips	47
Paddle Pastettes	10
Parafilm 'M'	69
Pastette	3
Pastette, Aspirator	11
Pastette Bulk Packs	5
Pastette, Cell Saver	7
Pastette, Dual Bulb	10
Pastette, Fine Tip	8
Pastette, Graduated	6
Pastette, Jumbo	7
Pastette, Maxi	7

Product Details	Page No.
Pastette, Micro	9
Pastette, Non-graduated	7
Pastette, Paddle	10
Pasteur Pipettes (Pastette)	3
PCR Chiller Racks	133
PCR Consumables	105
PCR Filter Tips	40-43
PCR Pipettes	25
PCR Plate Compatibility Chart	108
PCR Plates	110
PCR Plates, 24 Well	110
PCR Plates, 48 Well	110
PCR Plates, 96 Well	110
PCR Plates, 384 Well	112,115
PCR Plates, Barcoded	112
PCR Plate Sealing Film	121
PCR Racks	132
PCR Sealing Film	121
PCR Sealing Foils	125
PCR Sealing Mat	121
PCR Tubes	106
PCR Tube Strips and Caps	106
PCR Workstation	168
PeeCanterUrine Sample Collection Device	86
Peristaltic Pump	164
Perkin Elmer Compatible Robotic Tips	47
Petri Dishes	70
pH Indicator Papers, Universal	75
pH Test Papers, Universal	75
pH Test Strips	75
Pipet-Aid	16
Pipet-Aid Accessories	16
Pipet-Aid Filters	16
Pipet-Aid Hood Mate	18
Pipet-Aid Original	18
Pipet-Aid XL	17
Pipet-Aid XP	17
Pipet-Aid XP ²	16
Pipette Controllers	16
Pipettes	14
Pipettes, Manual	14
Pipettes, Multichannel	15
Pipettes, Pasteur	3
Pipettes, Positive Displacement	22
Pipettes, Single Channel	14
Pipettes, Transfer	3
Pipette Tips	31
Pipette Tips, Aerogard Filter Tips	42
Pipette Tips, Fastrak	38
Pipette Tips, Filter	40
Pipette Tips, Gel Cutting	45,160
Pipette Tips, Gel Loading	44
Pipette Tips, Low Retention	35,42
Pipette Tips, Manual & Electronic	31
Pipette Tips, Non-Filter	34-39,44
Pipette Tips, Robotic	46
Pipette Tips, ZAP Premier Filter Tips	40
Pipetting Controller	16
Plates, 96-Well Microtitre	113
Plates, Deep Well	113
Plate Sealing	116
Plate Sealing Accessories	126
Plate Sealing Film, Adhesive	116
Plates, PCR	110
Plug Caps	65

Product Details	Page No.
Polypropylene Test Tubes	64
Polystyrene Container Metal Cap	66
Polystyrene Container PS/Metal Cap	93
Polystyrene Test Tubes	64
Positive Displacement Pipettes	22
Positive Displacement Dispenser	22
Power Supplies, Clarit-E	158
Primary Sample Containers For Air	87
Primary Sample Containers For Road	90
Proficiency Testing Kits	104
ProtectR CO ₂ Resistant Tubes	60,88
Qiagen Compatible Robotic Tips	47
qPCR Sealing Films	124
qPCR Tubes and Tube Strips	106
Racked Microtubes	114
Racks	127
Racks, 4 Way Combirack	130
Racks, 13mm Diameter Tubes	128
Racks, 16mm Diameter Tubes	128
Racks, 18mm Diameter Tubes	130
Racks, 30mm Diameter Tubes	128
Racks, Cryogenic Vial	136
Racks, Microcentrifuge Tubes	129
Racks, PCR	132
Reagent Reservoirs	115
Reagent Trough	115
Real Time PCR Films	124
Real Time PCR Tubes & Strips	106
Rigid Outer Container-UN3373 compliant	100
Robotic Tips	46
Robotic Tips for Beckman Workstations	46,49
Robotic Tips for Biomek Workstations	46
Robotic Tips for Corbett Workstations	47
Robotic Tips for Hamilton Workstations	49
Robotic Tips for Multimek Workstations	46
Robotic Tips for Olympus Workstations	49
Robotic Tips for Packard Workstations	47
Robotic Tips for Perkin Elmer Workstations	47
Robotic Tips for Qiagen Workstations	47
Robotic Tips for Tecan Workstations	47
Rocking Platform	165
RollMate adhesive plate seals	117
Round Bottom Tubes	64
SafeGrip Screw-Caps	54
Sample Collection & UN3373 Packaging	79
Sample Containers	66
Sample Containers	87
Sample Containers	92
Sample Cups	76
Screw-Cap Tubes	54
Sealing Film	116
Sealing Film Accessories	126
Sealing Film, Paddle	126
Sealing Film, PCR	121
Sealing Film, Roller	126
Sealing Films, Microplates	116
Sealing Mat, PCR	121
Sealing Mat, Round Well	113
SealMate	116
SealPlate	118
SealPlate Rollmate	117
Secondary Packaging Solutions for Air or Road Transport	94
Secondary Packaging Solutions for Air Transport	98



Product Details	Page No.
Secondary Packaging Solutions for Road Transport	99
Semi-Dry Electrophoretic	156
Serological Pipette Controllers	16
Serological Pipette Filters	16
Serological Pipettes	19
Serum Vial SpecSafe Mailing Packs	95
Sexual Health Kits	103
Shades Test Tube Racks	129
Shaker, Mini 3D	165
Shaking Platform	165
Silicone Tips	26
Slide Mailers	93
Slot Blotter	157
Soft-Release Microcentrifuge Tubes	52
Spatulas	70
Speciality Containers	92
Specimen Bags	98
Specimen Containers	66, 92
SpecSafe Secondary Mailing Packs	94
Spectrophotometer Cuvettes	77
Sterilin Plugged Pipettes	19
Stirrer	164
Storage, Cryogenic	136
Storage Racks	127
Strip Microtubes, PCR	106
Strip Microtubes, Storage	114
SuperClear 15ml & 50ml Centrifuge Tubes	58
Swabs	86
Swab Tubes SpecSafe Mailing Packs	97
Syringe Filters, Mixed Cellulose Ester	73
Syringe Filters, Nylon Polyamide	74
Syringe Filters, Polyethersulfone	74
Syringe Filters, PTFE	74
Syringe Filters, PVDF	74
Tamper Evident Containers	56
Tamper Evident Screw Caps	56
Tecan Compatible Robotic Tips	47
Technicon Sample Cups	76
Test Tube Racks	128
Test Tubes	64
Tethered Screw-Caps	54
Thermal Cycler Plates & Sealing Films	110
Thermal Printer	160
ThermalSeal Sealing Film	123
Thin Wall PCR Tubes & Strips	106
Tissue Culture Filters	73
Tough Microcentrifuge Tubes	52
Transfer Pipettes	3
Transilluminators	159
Transport Tubes	68, 87
Transport Tubes SpecSafe Mailing Packs	97
Trays and liners for PCR Workstation	168
True-Lock Microcentrifuge Tubes	52
Tube Racks	127
Tube Volume Adaptors	65
UN3373 Compliance Resources	80
UN3373 Compliant mailing system	101
UN3373 Labels & Security Seals	100
UN3373 Packaging Guide	83
UN3373 Regulation Resources	82
UN3373 Sample Carriers	100
Universal Containers	67
Universal Containers for Road	90
Universal Containers - Leak-proof	92
Universal Containers	
SpecSafe Mailing Packs	96
Universal pH Indicator Papers	75
Universal pH Test Papers	75
UV Cuvettes	77
UV Transilluminators	159
Vacu-Re-Caps	65
Vacuum Blood Tube Caps	65
Vacuum Pump, GelMaster	157
Vertical Electrophoresis	148
Vortex Mixer	167
Waver Shaker	166
Weighing Dishes	71
White Label Microcentrifuge Tubes	55
White PCR Tubes	107
Wide Bore Pipette Tips (Cell Saver)	44
Wiretrol II	25
X-Pierce Sealing Films	119
ZAP Filter Tips	40
Zone-Free Sealing Films	119





Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.
1-000-0005	26	3-000-075-K	24	4-000-302	18	APF002500	15
1-000-0010	26	3-000-091	22,23	4-000-303	18	APF005000	15
1-000-0010-64	26	3-000-093	22,23	4-000-501-I	16	APF010000	15
1-000-0020	26	3-000-0101	24	4-000-501-UK	16	APF020000	15
1-000-00025	26	3-000-102	22,23	4-131-200-E	18	APF050000	15
1-000-0030	26	3-000-0102	24	4-131-201-E	17	APF100000	15
1-000-0040	26	3-000-0103	24	4-131-220-E	18	APS-4	15
1-000-0050	26	3-000-105	23	4-131-220-TC-E	18	APS-6	15
1-000-0060	26	3-000-105-G	23	5-000-1001-X	25	APV000025	15
1-000-0070	26	3-000-203	25	5-000-1001-X10	25	APV000100	15
1-000-0080	26	3-000-203-G	25	5-000-2005	25	APV000200	15
1-000-0090	26	3-000-203-G-0.2	25	5-000-2010	25	APV000500	15
1-000-0100	26	3-000-203-G-X	30	5-000-2020	25	APV001000	15
1-000-0150	26	3-000-203-G-XL	30	5-000-2050	25	APV002000	15
1-000-0200	26	3-000-205A	29	5-000-2100	25	APV010000	15
1-000-0200-32	26	3-000-206A	29	5-000-2200	25	APV050000	15
1-000-0250	26	3-000-206-RN	29	8-000-7520-H-5	27	APV100000	15
1-000-0300	26	3-000-207	28	412P	86	BK-50	120
1-000-0350	26	3-000-210	22	783-500	115	BS1415	98
1-000-0400	26	3-000-210-G	23,25	0027600	69	CP3212	65
1-000-0447	26	3-000-210-G8	25	0027800	69	CP3346R	55
1-000-0500	26	3-000-225	22	AB001	97	CP5314WL	55
1-000-0750	26	3-000-225-G	23	AB001-100	97	CP5315WL	55
1-000-0800	26	3-000-250	22	AB002	97	CP5316WL	55
1-000-800-12	27	3-000-250-G	23	AB002-100	97	CP5317WL	55
1-000-1000	26	3-000-275	22	AB003	97	CP5318WL	55
1-000-1000-100	26	3-000-275-G	23	AB003-100	97	CP5320WL	55
1-000-2000	26	3-000-310	23	AB004	97	CP5321WL	55
1-000-7500-C-5	27	3-000-310-K	24	AB004-100	97	CP5322WL	55
1-000-7500-HC-5	27	3-000-320	23	AB010	97	CP5325N	55
1-000-9000	26	3-000-320-G	23	AB010-100	97	CP5326N	55
1-000-9003	26	3-000-320-K	24	AP0001	77	CP5328WL	55
1-000-9005	26	3-000-325	23	AP0004	77	CP5329WL	55
2-000-000	27	3-000-325-K	24	AP0009	77	CP5335WL	55
2-000-001	27	3-000-350	23	AP0021	65	CP5339WL	55
2-000-005	27	3-000-350-K	24	AP0022	65	CP5910	54
2-000-010	27	3-000-375	23	AP0024	65	CP5911	54
2-000-020	27	3-000-375-K	24	AP0025	65	CP5912	54
2-000-025	27	3-000-385	23	AP0121B	65	CP5913*	54
2-000-030	27	3-000-385-K	24	AP0121G	65	CP5914*	54
2-000-040	27	3-000-388	23	AP0121P	65	CP5915*	54
2-000-044	27	3-000-388-G	23	AP0121R	65	CP5921	54
2-000-044-H	27	3-000-388-K	24	AP0121Y	65	CP5922	54
2-000-050	27	3-000-390	23	AP0125G	65	CP5923	54
2-000-075	27	3-000-510	22	AP0125P	65	CP5924	54
2-000-100	27	3-000-510-X	25	AP0125R	65	CP5925	54
2-000-100-E	27	3-000-525	22	AP80010	15	CP5930	54
2-000-200	27	3-000-550	22	AP80050	15	CP5931	54
2-000-201	27	3-000-575	22	AP80100	15	CP5932	54
3-000-000-203-X	30	3-000-590	22	AP80200	15	CP5933	54
3-000-000-210-X	25	3-000-590-G	23	AP80300	15	CP5934	54
3-000-005-K	24	3-000-752	27	AP120010	15	CP5935	54
3-000-010-590	24	4-000-035	17	AP120050	15	CP5940N*	54
3-000-010-K	24	4-000-036	16,17	AP120100	15	CP5950AS*	54
3-000-024-A	30	4-000-051	16-18	AP120200	15	CP5960N*	54
3-000-024-L	30	4-000-052	16-18	AP120300	15	CS0010	69
3-000-024-R	30	4-000-079	17-18	APF000025	15	CS0050	69
3-000-025-K	24	4-000-079-Z	17-18	APF000050	15	CS1115	71
3-000-025-SB	30	4-000-081-E	18	APF000100	15	CT1110	58
3-000-026	29	4-000-201	17	APF000200	15	CT1120	58
3-000-027	30	4-000-202-E	17	APF000250	15	CT1140	58
3-000-029	29	4-000-205	17	APF000400	15	CT1150	59
3-000-030-A	30	4-000-205-E	17	APF000500	15	CT1155	59
3-000-032	28	4-000-220	18	APF001000	15	CT1170	59
3-000-050-K	24	4-000-221-E	18	APF002000	15	CT3076	58

Numerical Index



Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.
CT3078	58	EL1442	142	EL2166	150	EL4010	160
CT3083	58	EL1450	142	EL2177Z	151	EL4020	160
CT5015	60,88	EL1452	142	EL2179Z	151	EL4030	160
CT5015S	60,88	EL1500	142	EL2190	150	EL4040	160
CT5050	60,88	EL1502	142	EL2200	155	EL4050	160
CT5050S	60,88	EL1510	142	EL2250	155	EL4072	160
CV4010	76	EL1550	142	EL2300Z	155	EL4075	160
CV4020	76	EL1555	146	EL2318	152	EL4080	160
CW3810	67,92	EL1560	146	EL2320	155	EL4090	160
CW3820	67,90	EL1565	146	EL2330	155	EL4100	160
CW3830	67,90	EL1570	146	EL2334	152	EL4150	159
CW3840	67,90	EL1575	146	EL2340Z	155	EL4160	159
CW3850	67,90	EL1580	146	EL2356	155	EL4170	159
CW3880	67,92	EL1585	146	EL2390	152	EL4200	159
CW3890	67,92	EL1600	143	EL2395	152	EL4210	159
DA2501	71	EL1602	143	EL2400	155	EL4230	159
DA2502	71	EL1620	143	EL2400-HI	155	EL4240	159
DA2503	71	EL1622	143	EL2402	155	EL4250	159
DA2511	71	EL1630	143	EL2404	155	EL4260	159
DA2512	71	EL1632	143	EL2412	156	EL4270	159
DA2513	71	EL1640	143	EL2448	157	EL5010	167
DA2521	71	EL1642	143	EL2450	155	EL5012	167
DA2522	71	EL1660	143	EL2452	155	EL5014	167
DA2523	71	EL1700	144	EL2458	155	EL5016	167
ED0200	34	EL1702	144	EL2460	156	EL5018	167
ED1000	36	EL1800	144	EL2465	156	EL5020	167
EL1000	140	EL1802	144	EL2496	157	EL5022	167
EL1002	140	EL1820	144	EL2500Z	155	EL5024	167
EL1050	140	EL1822	144	EL2500Z-HI	155	EL7000	153
EL1100	140	EL1840	144	EL2502	155	EL7010	153
EL1102	140	EL1842	144	EL2512	156	EL8800	157
EL1200	140	EL1860	144	EL2524	157	EL8810	157
EL1202	140	EL1920	145	EL2548	157	EL8815	157
EL1250	140	EL2000	150	EL2560	152	EL8830	157
EL1300	140	EL2004	150	EL2580	152	EL8835	157
EL1302	140	EL2012	150	EL2594	152	EL9000	164
EL1310	141	EL2018	150	EL2600	155	EL9010	164
EL1312	141	EL2026	155	EL2610	155	EL9020	164
EL1316	141	EL2028	155	EL2615	155	EL9036	166
EL1320	141	EL2030	155	EL2620	155	EL9037	166
EL1322	141	EL2030	155	EL2625	155	EL9039	166
EL1330	141	EL2032	155	EL2630	155	EL9040	166
EL1332	141	EL2032	155	EL2640	155	EL9050	166
EL1340	141	EL2034	155	EL2650	45,160	EL9060	166
EL1342	141	EL2034-HI	155	EL2650R	45,160	EL9070	166
EL1345	141	EL2036	155-156	EL2660	45,160	EL9075	166
EL1350	141	EL2038	155-156	EL2660R	45,160	EL9080	165
EL1355	141	EL2083	151	EL2661	168	EL9082	155
EL1360	141	EL2084	151	EL2662	168	EL9084	155
EL1365	141	EL2086	151	EL2670	168	EL9086	155
EL1370	141	EL2096	155	EL2671	168	EL9088	155
EL1375	141	EL2098	155	EL2672	168	EL9531	166
EL1380	141	EL2100Z	151	EL2674	168	EL9600	163
EL1385	141	EL2102Z	151	EL2680	168	EL9610	163
EL1386	141	EL2106	155	EL2682	168	EL9620	163
EL1386	141	EL2110Z	151	EL2701	159	EL9630	163
EL1387	141	EL2114	155	EL2702	159	EL9640	163
EL1388	141	EL2120Z	151	EL2703	159	EL9650	163
EL1389	141	EL2128Z	155	EL2705	159	EL9654	163
EL1390	141	EL2130	155	EL2707	159	EL9656	163
EL1400	142	EL2132	155	EL2732	158	EL9658	163
EL1402	142	EL2134	155	EL2742	158	EL9660	163
EL1430	142	EL2134Z-HI	155	EL2752	158	EL9662	163
EL1432	142	EL2136	155-156	EL4000	160	EL9664	163
EL1440	142	EL2138	155-156	EL4002*	160	EL9666	163



Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.
EL9668	163	FL0228S	74	IR1382	66,93	LW2213-10	111
EL9670	163	FL0229S	74	IR1385	67,90	LW2214	111
EL9701	164	FO013-100	101	IR1390	67,90	LW2214-10	111
EZP-100	119	FO013-500	101	IR1400	66,93	LW2215	111
EZPS-25	119	FR0250	39	IR1405	66,93	LW2215-10	111
F2-RL-500	117	FR1010	39	IR1410	66,93	LW2215-BAR	112
F-96-100	125	FR1015	39	IR1415	66,93	LW2216	111
F-384-100	125	FR1200	39	IR1420	66,93	LW2216-10	111
FC-100	120	FR1250	39	LB001	100	LW2220	112
FC2010	85	FR1300	39	LB002	100	LW2220W	112
FC2030	85	FR2200	39	LB003	100	LW2221	121
FC2040	85	FR3000	39	LP010N	35	LW2221-10	121
FC2052	85	FR3020	39	LP010NFRS	42	LW2222	107
FC2060	85	FR3250	39	LP010XLN	35	LW2225	112
FL0001PK	72	FR9000	39	LP010XLNFRS	42	LW2230W	111
FL0002PK	72	FR9200	39	LP020NFRS	42	LW2230W-10	111
FL0003PK	72	FR9500	39	LP100NFRS	42	LW2230W-BAR	112
FL0004PK	72	FS95-C3	99	LP200BVRSY	34	LW2330*	106
FL0005PK	72	FS95-C3-100	99	LP200BVRVY	34	LW2335	107
FL0006PK	72	FS95-C3-100-IATA	98	LP200BVY	34	LW2340	107
FL0007PK	72	FS95-C3A-100	99	LP200N	35	LW2372*	52
FL0008PK	72	FS95-C3A-500	99	LP200NFRS	42	LW2375*	52
FL0009PK	72	FS95-C3-IATA	98	LP200W	44	LW2377	52
FL0010PK	72	FS95-C4	99	LP300NFRS	42	LW2377AS	52
FL0011PK	72	FS95-C4-100	99	LP300NR	35	LW2400	53
FL0012PK	72	FS95-C4-100-IATA	98	LP1000B	36	LW2410*	53
FL0013PK	72	FS95-C4A-100	99	LP1000NFRS	42	LW2420	53
FL0014PK	72	FS95-C4A-500	99	LP1000W	44	LW2455*	52
FL0015PK	72	FS95-C4-IATA	98	LP1250N	37	LW2486	52
FL0016PK	72	FS95-C5	99	LP10000B	37	LW2500	107
FL0100PK	72	FS95-C5-100	99	LW0801	21	LW2505	107
FL0101PK	72	FS95-C5-100-IATA	98	LW0802	21	LW2510*	107
FL0102PK	72	FS95-C5A-100	99	LW0803	21	LW2520	107
FL0103PK	72	FS95-C5A-1000	99	LW0804	21	LW2525	107
FL0110	72	FS95-C5-IATA	98	LW0805	21	LW2535	107
FL0111	72	FT0050AMS	57	LW0806	21	LW2560	107
FL0112	72	FT0050AS	57	LW1062	37	LW2570*	107
FL0113	72	FT0050NT	57	LW1065	42	LW2575	107
FL0200S	73	FT0050NTS	57	LW1103	44	LW2580	107
FL0201S	73	FT1850AS	130	LW1124	43	LW2590	107
FL0202S	73	GL01017NTR	44	LW1126	34	LW2590-BULK	107
FL0203S	73	GL01017NTRS	44	LW1127	37	LW2700	116
FL0204S	73	GL01037NTR	44	LW1128	37	LW2702	116
FL0205S	73	GL01037NTRS	44	LW1129 / LW1122	37	LW2704	116
FL0206S	74	GL01057NTR	44	LW1136	34	LW2706	116
FL0207S	74	GL01057NTRS	44	LW1154	34	LW2720	119
FL0208S	74	GL20017NTR	45	LW1501R	46	LW2722	126
FL0209S	74	GL20017NTRS	45	LW1504R	46	LW2724	124
FL0210S	74	GL20037NTR	45	LW1548R	46	LW2726	123
FL0211S	74	GL20037NTRS	45	LW2070	53	LW2730	120
FL0212S	74	GL20057NTR	45	LW2078	53	LW2732	125
FL0213S	74	GL20057NTRS	45	LW2141	107	LW2733	124
FL0214S	74	GL20057SNTL	45	LW2161	107	LW2734	124
FL0215S	74	GL20057SNTR	45	LW2170	106	LW2735	121
FL0217S	74	GL20057SNTRS	45	LW2175*	106	LW2736	122
FL0218S	74	IN2010	69	LW2190	107	LW2737	122
FL0219S	74	IN2020	69	LW2200	110	LW2738	118
FL0220S	74	IN2030	69	LW2200-10	110	LW2739	118
FL0221S	74	IN2040	69	LW2203	110	LW2770	118
FL0222S	74	IN2050	69	LW2203-20	110	LW2771	118
FL0223S	74	IR1365	70	LW2206	110	LW2772	118
FL0224S	74	IR1370	70	LW2206-10	110	LW2774	118
FL0225S	74	IR1375	70	LW2210	111	LW2775	118
FL0226S	74	IR1380	66,93	LW2210-10	111	LW2776	121
FL0227S	74	IR1381	66,93	LW2213	111	LW2777	121

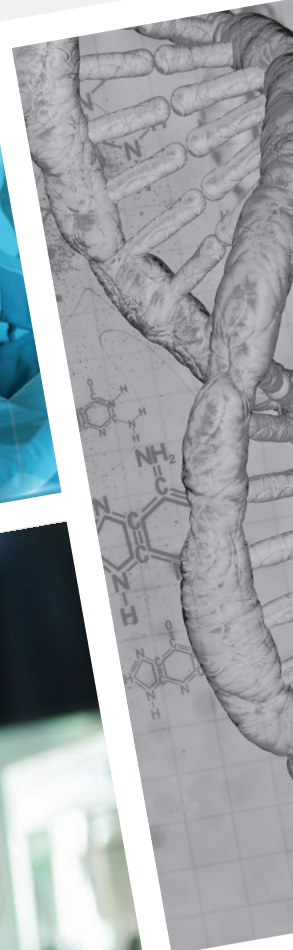
Numerical Index



Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.
LW2780	126	LW4005	6	LW4750	10	LW6391	34
LW2781	126	LW4006	6	LW4750 -500	10	LW6393S	34
LW2782	119	LW4010	6	LW4760	10	LW6470	36
LW2783	119	LW4020	9	LW4770	10	LW6471	36
LW2786	124	LW4021	9	LW4770-500	10	LW6475S	36
LW2788	119	LW4023	9	LW4780	10	LW6481	36
LW2790	124	LW4040	6	LW4780-500	10	LW7828	37
LW2791	124	LW4050	7	LW4785	10	LW7829	37
LW2795	120	LW4051	7	LW4790	10	LW7832	43
LW2900	110	LW4053	7	LW4790-500	10	LW7833	37
LW2901	110	LW4060	8	LW4795	10	LW7835	37
LW2902	110	LW4061	8	LW4806	11	LW7836	43
LW2902-10	110	LW4070	8	LW4811	11	LW8241	9
LW2905	107	LW4111	6	LW5122	131	LW9400	115
LW2910	110	LW4112	6	LW5220	131	LW9435	113
LW2910-10	110	LW4113	6	LW5220AS	131	LW9436	113
LW2915	107	LW4114	6	LW5440AS	131	LW9445	113
LW2920	111	LW4141	7	LW5640	131	LW9446	113
LW2920-10	111	LW4204	7	LW5640AS	131	LW9455	113
LW2922W	112	LW4206	7	LW5700	135	LW9456	113
LW2925	107	LW4212	6	LW5700AS*	135	LW9460	114
LW2940	111	LW4215	6	LW5710	135	LW9461	114
LW2940-10	111	LW4231	8	LW5725AS	134	LW9480	114
LW2950	111	LW4232	8	LW5725N	134	LW9500	114
LW2950-10	111	LW4233	8	LW5740	135	LW9505	114
LW2960	112	LW4234	8	LW5750AS*	134	LW9510	114
LW2970	111	LW4235	8	LW5750N	134	LW9520	114
LW2970-10	111	LW4236	8	LW5751BL	134	LW9530	114
LW3332	63	LW4237	8	LW5760	135	LW9540	114
LW3334	63	LW4238	8	LW5780*	132	LW9550	114
LW3335	63	LW4239	8	LW5790	132	LW9555	114
LW3336	63	LW4241	9	LW5840	130	LW9570	115
LW3337	63	LW4242	9	LW5840AS	130	LW9600	115
LW3338	63	LW4243	8	LW5850	130	LW9601	115
LW3339AS	62	LW4244	8	LW5880AS*	132	LW9602	115
LW3339B	62	LW4252	9	LW5890AS*	132	MDXT-4	100
LW3339G	62	LW4255	9	LW5989P	133	MDXT-5	100
LW3339GR	62	LW4263	7	LW5989Y	133	MDXT-MINI3	100
LW3339O	62	LW4264	7	LW5990P	133	MP3020	113
LW3339P	62	LW4266	7	LW5990Y	133	MP3030	113
LW3339R	62	LW4273	7	LW5991P	133	MP3040	113
LW3339V	62	LW4274	6	LW5991Y	133	MP3050	113
LW3339W	62	LW4277	6	LW6113B	128	MP3060	113
LW3339Y	62	LW4282	6	LW6113G	128	MP3070	113
LW3400B	136	LW4283	6	LW6113L	128	MP3080	113
LW3400R	136	LW4284	6	LW6113O	128	MP3090	113
LW3430	136	LW4292	10	LW6113Y	128	PC40260	133
LW3432	63	LW4295	10	LW6116B	128	PC40270	133
LW3434	63	LW4336	7	LW6116L	128	PDL-5	126
LW3435	63	LW4635	8	LW6116O	128	PH0100PK	75
LW3436	63	LW4636	8	LW6116Y	128	PH0101PK	75
LW3437	63	LW4638	8	LW6130B	128	PH0102PK	75
LW3438	63	LW4691	7	LW6130G	128	PH0103PK	75
LW3439	63	LW4692	7	LW6130L	128	PH0104PK	75
LW3440B*	136	LW4694	7	LW6130O	128	PH0105PK	75
LW3445B*	136	LW4695	7	LW6130Y	128	PH0106PK	75
LW3450B*	136	LW4697	8	LW6200B-5	129	PH0107PK	75
LW3455B*	136	LW4728	6	LW6200G-5	129	PH0108PK	75
LW3532	63	LW4729	6	LW6200P-5	129	PH0109PK	75
LW3534	63	LW4730	10	LW6200Y-5	129	PH0110PK	75
LW3535	63	LW4730-500	10	LW6220	129	PH0111PK	75
LW3538	63	LW4740	10	LW6220AS	129	PH0112PK	75
LW4000	7	LW4740-500	10	LW6360	34	PH0113PK	75
LW4002	7	LW4745	10	LW6361	34	PH0200PK	75
LW4003	7	LW4745-500	10	LW6365S	34	PH0201PK	75



Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.	Cat. no.	Page No.
PH0202PK	75	RT1557RS-BU	48	SW1020	86		
PH0203PK	75	RT1577R	47	SW1030	86		
PH0204PK	75	RT1582R	47	TE5317	56		
PH0205PK	75	RT1585RS-BU	47	TE5320	56		
PH0206PK	75	RT1586R	47	TE5322	56		
PH0207PK	75	RT1589R	47	TE5326N	56		
PH0208PK	75	RT1592RS-BU	47	TE5329	56		
PH0209PK	75	RT1593R	47	TE5329WL	56		
PH0210PK	75	RT1596R	47	TE5334	56		
PH0212PK	75	RT1599RS-BU	47	TE5336	56		
PH0213PK	75	RT15000	49	TE5338	56		
PH0215PK	75	RT15100	49	TE5341	56		
PH0216PK	75	RT15101	49	TE5348	56		
PH0217PK	75	RT15105	49	TSA-100	123		
QS845	114	RT15106	49	TS-RT2RR-100	125		
QS845TP	114	RT15109	49	TT1050	68,87		
QS845TPS	114	RT15110	49	TT1050S	68,87		
QS847	114	RT15111	49	TT1100	68,87		
QS847S	114	RT15114	49	TT1100S	68,87		
QT1500A	76	RT15115	49	TU1200	65		
QT1502A	76	RT15116	49	TU1300	65		
QT1520A	76	SC5520CO	66,91	TU1600	65		
QT1550A*	76	SC5520CP	66,91	TU11042PS	64		
QT2110A	76	SC5520CR	66,91	TU12055PP	64		
QT2120A	76	SC5520CW	66,91	TU12055PS	64		
QT2600A	76	SC5520CY	66,91	TU12075PP	64		
RC1021	19	SC5520SJ	66,91	TU12075PS	64		
RC1022	19	SC5560CO	66,91	TU13075PP	64		
RC1023	19	SC5560CP	66,91	TU13075PS	64		
RC1025	19	SC5560CR	66,91	TU13100PP	64		
RC1030	19	SC5560CW	66,91	TU13100PS	64		
RC1040	19	SC5560CY	66,91	TU16100PP	64		
RC1050	19	SC5560SJ	66,91	TU16100PS	64		
RC1060	19	SH0100SS	95	US0120	70		
RC1061	20	SH0110SS	95	UV1000	168		
RC1062	20	SH0200SS	96	WS5000-10	69		
RC1064	20	SH0210SS	96	X72053	77		
RC1065	20	SH0301SS	95	X72054	77		
RC1066	20	SH0311SS	95	X710003	69		
RC1067	20	SH0400SS	96	XPS-25	119		
RC1068	20	SH0410SS	96	ZAF-PE-50	119		
RC1640	19	SH0500SS	96	ZP0250S	40		
RC1650	19	SH0510SS	96	ZP1010S	40		
RC2120	68,92	SH0600SS	96	ZP1015S	40		
RC2122	68,92	SH0610SS	96	ZP1100S	41		
RC2124	68,92	SH0701SS	96	ZP1200S	41		
RC2145	67,92	SH0800SS	95	ZP1204S	40		
RC2260	70	SH0900SS	97	ZP1210S	41		
RC2270	70	SH1000	101	ZP1250CS	44		
RF95-1K	101	SH1010	101	ZP1250S	41		
RF95-200G	101	SH1300SS	95	ZP1300S	41		
RF95-330G	101	SH1400SS	96	ZP2100S	40		
RF95-500G	101	SH1500SS	97	ZP2200S	41		
RF95-LL1	101	SH1700SS	95	ZP2250S	41		
RFI95-1K-7	101	SH1800SS	95	ZP3000S	41		
RL-PLT-01	126	SM0505	93	ZP3020S	40		
RO-1K	100	SP2-RL-500	117	ZP3250S	41		
RO-200G	100	SP-IDA-10	118	ZP3300S	41		
RO-330G	100	SP-IDB-100	118				
RO-500G	100	SP-IDG-100	118				
ROI-1K-7	100	SP-IDL-100	118				
RO-LL1	100	SP-IDO-100	118				
RT1552R	48	SP-IDR-100	118				
RT1553R	48	SPS-2X8-50	118				
RT1555RS-BU	48	SW1010	86				



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