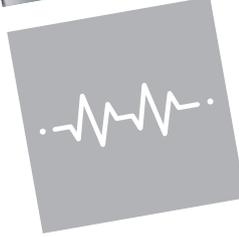




alpha laboratories

supplying quality to science



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.

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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.

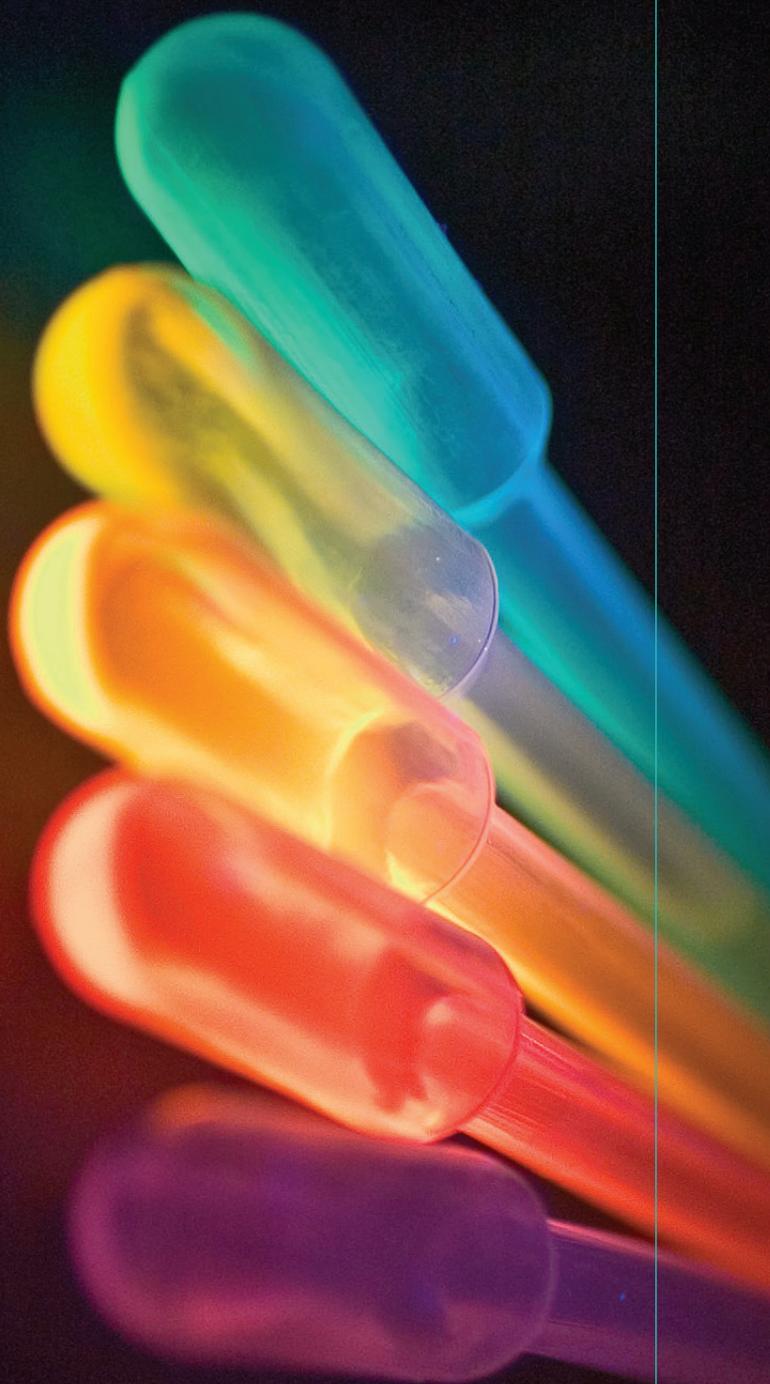
From quick and easy liquid transfers to precise control for small sample handling, Pastettes can be used for sampling from bottles or delivering to micro-cuvettes.

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

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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:

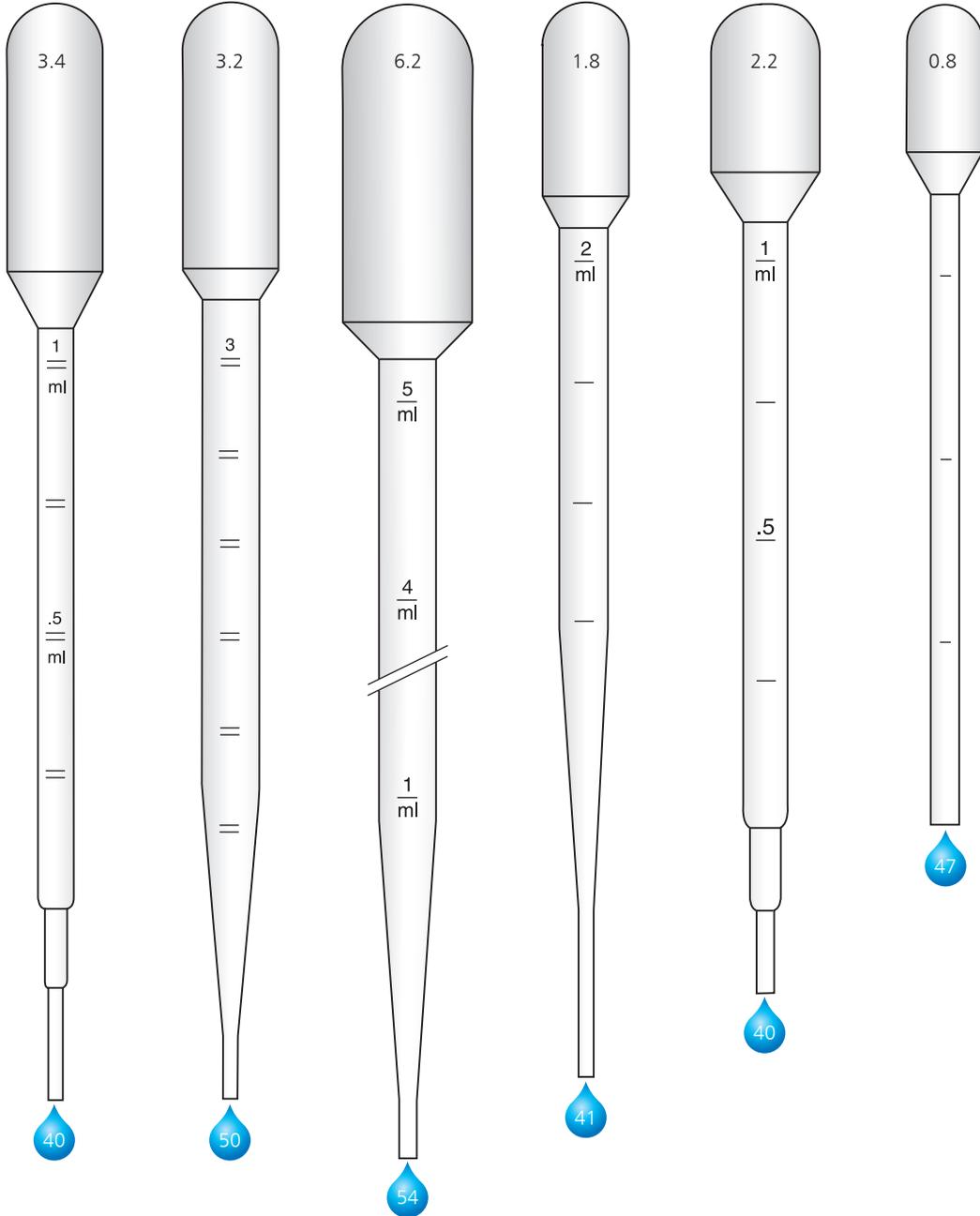
- Measured transfer
 - Aliquoting
 - Drop by drop work
- Graduated Medi to fit blood bag tubing
 Small Bulb Graduated for pH meter maintenance
 Graduated Mini for slide tests and micro-volumes

	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)



- 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	

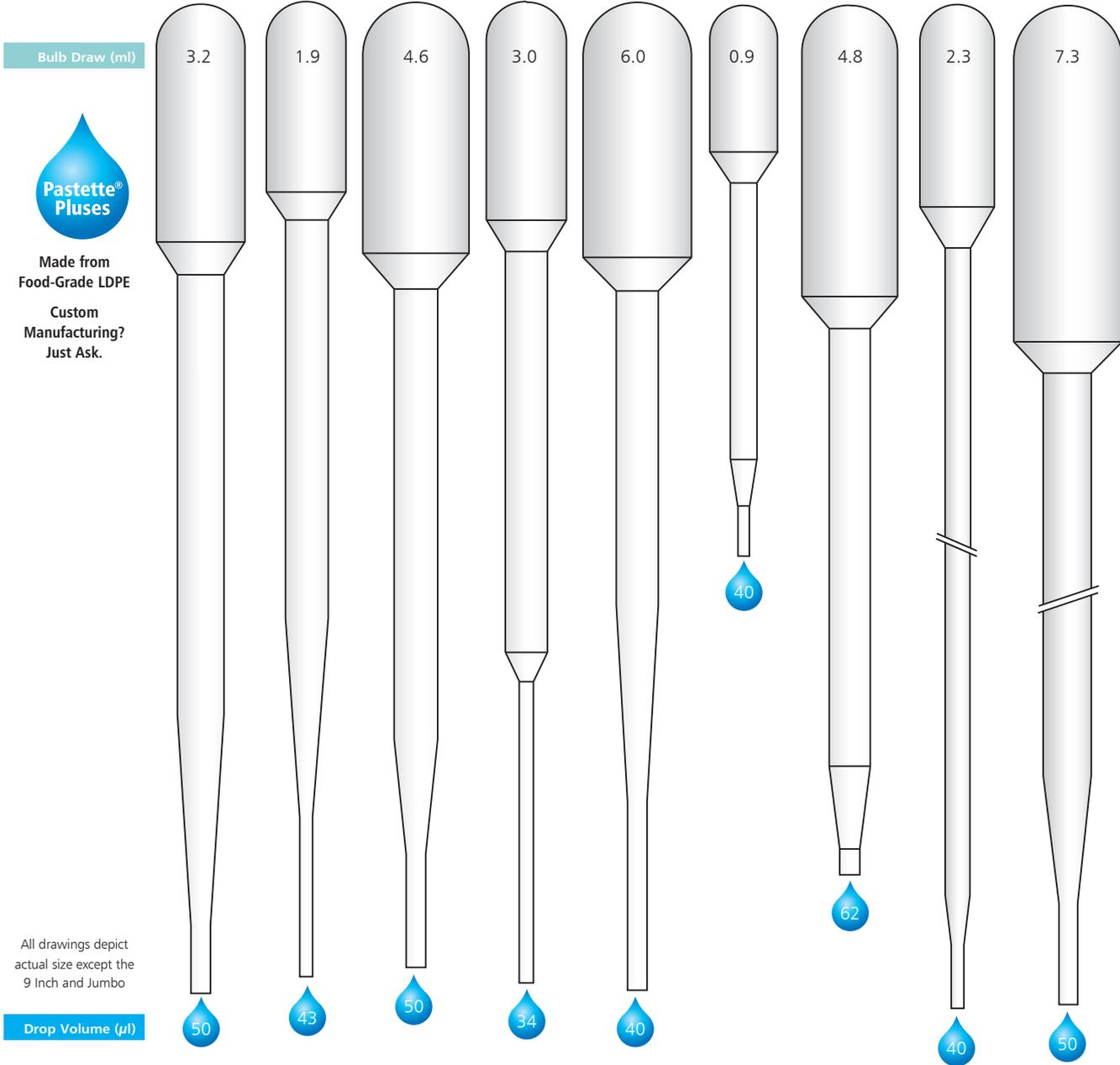
Pastette® Graduated

Best Choice
for:

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

Liquid Handling - Pastette®

Best Choice
for:

- Precise control
- Careful aspiration
- For test strips

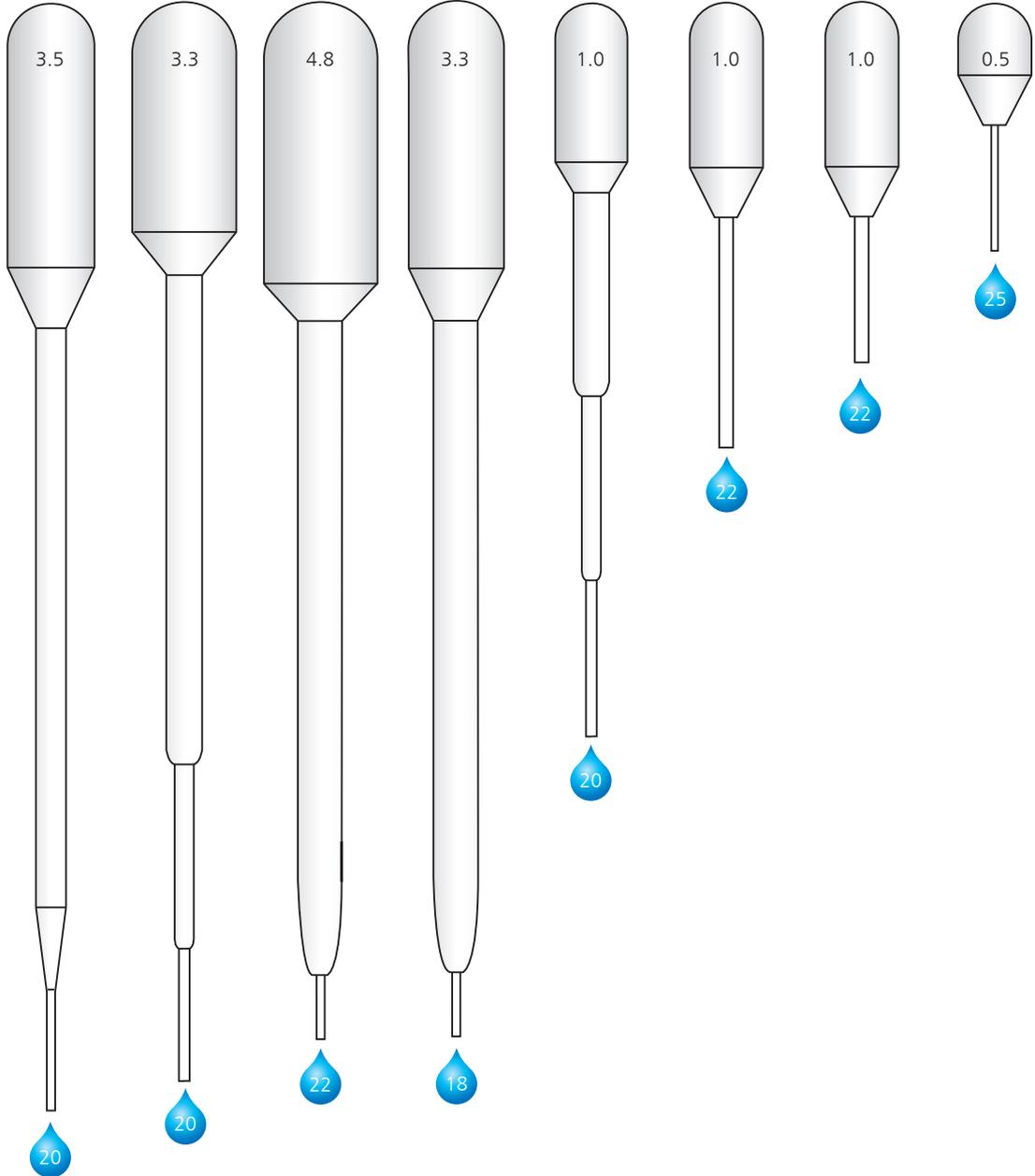
Fine Tip Mini for colony picking
 Fine Tip Maxi for sample removal
 Extended Fine Tip for small drop work

	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		Non-sterile
Pack Size	500	250	400	500	400	500	500	500		
Sterile 1's										1's
Cat No	LW4636	LW4238	LW4235	LW4061	LW4239					
Pack Size	400	400	400	400	400					
Sterile 20's										20's
Cat No	LW4638	LW4232	LW4236	LW4070	LW4237					
Pack Size	500	500	400	500	500					

Pastette® Fine Tip



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

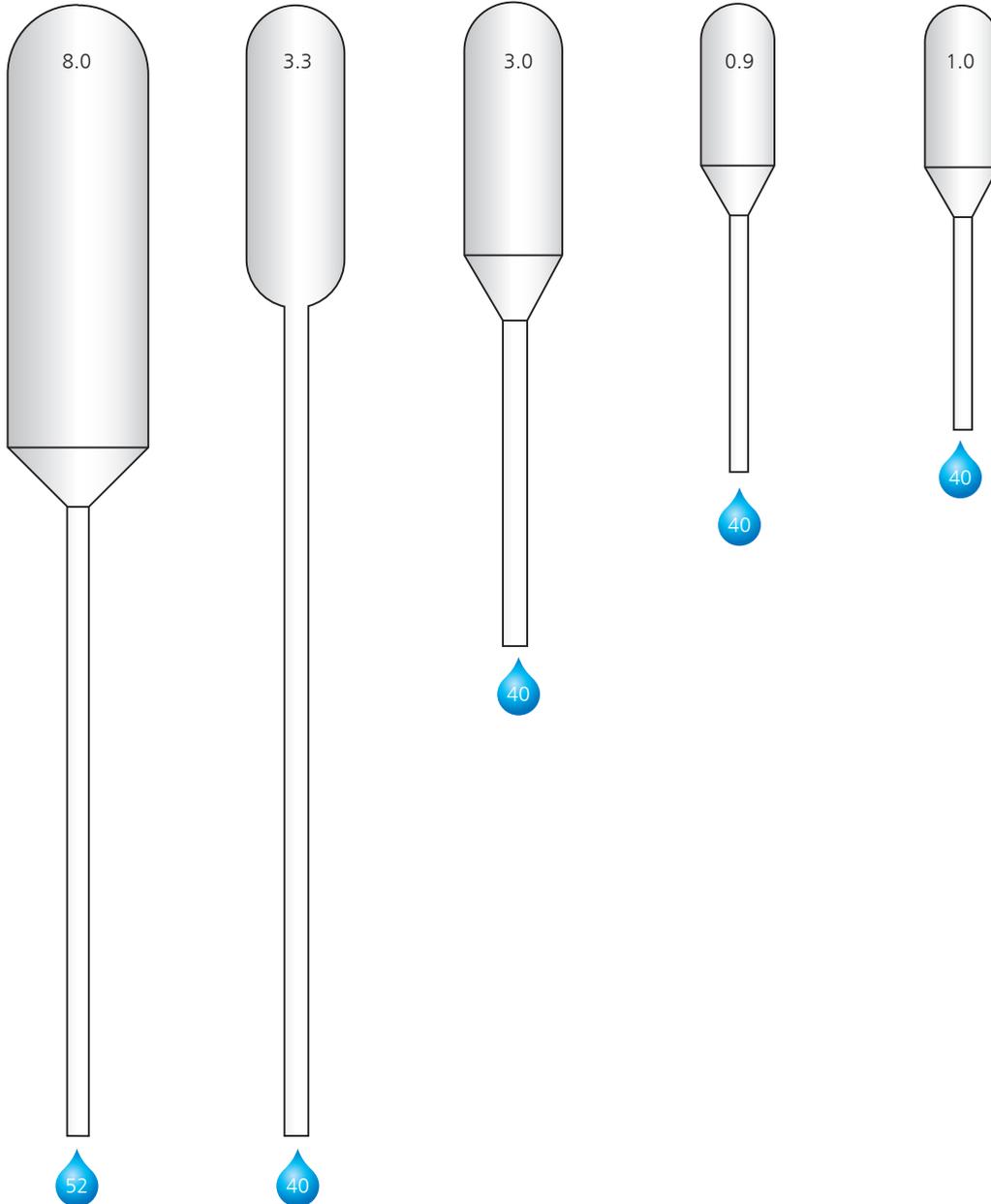
Ultra Micro for small volumes
 Standard Micro for reaction chambers
 Large Bulb Micro for transfer of larger volumes

	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				

Liquid Handling - Pastette®

Dual-Bulb Pastettes®

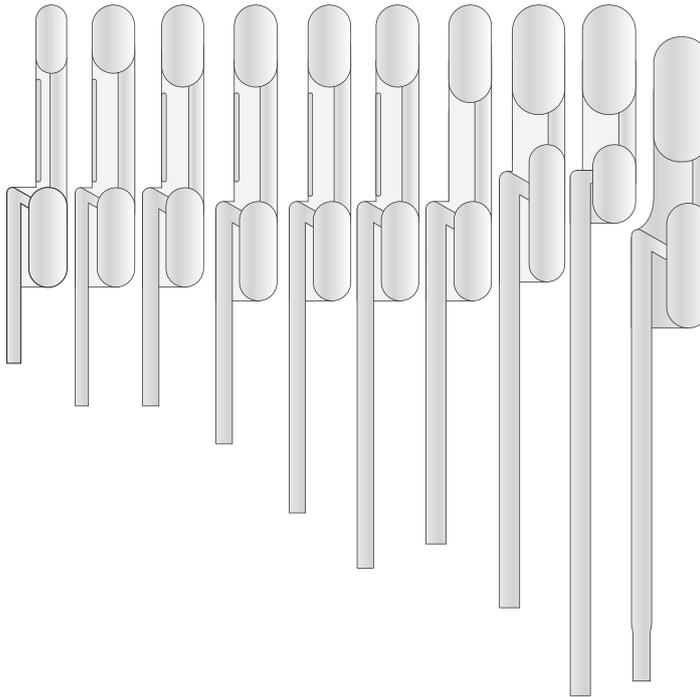
- Fast measured transfers
- Easy to use
- Innovative

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®

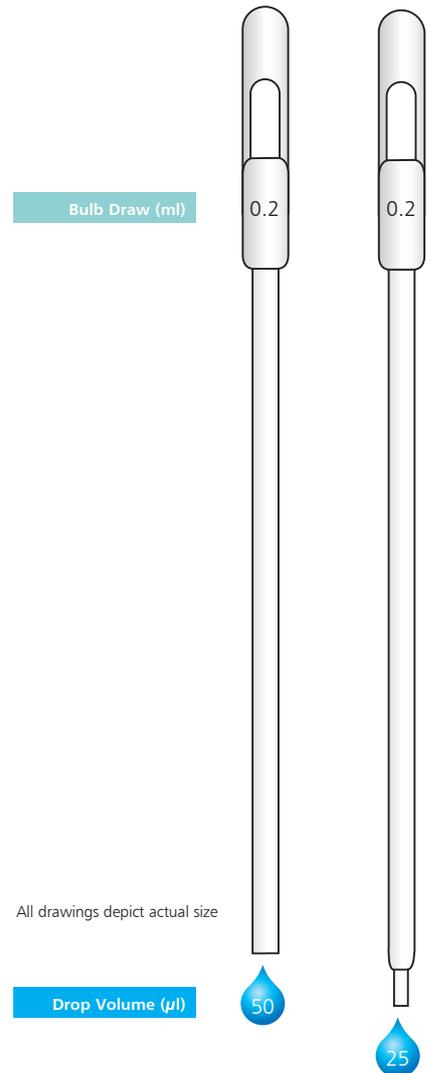
- Two functions, one Pastette®
- Choice of 2 drop sizes

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

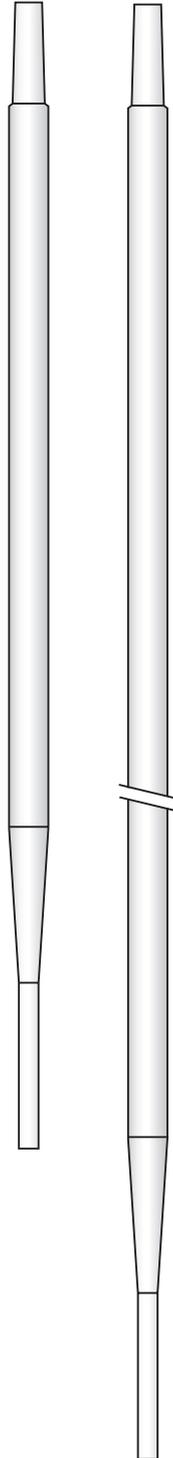
The unbreakable, safe alternative to aspirating with glass pipettes on vacuum lines.

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.

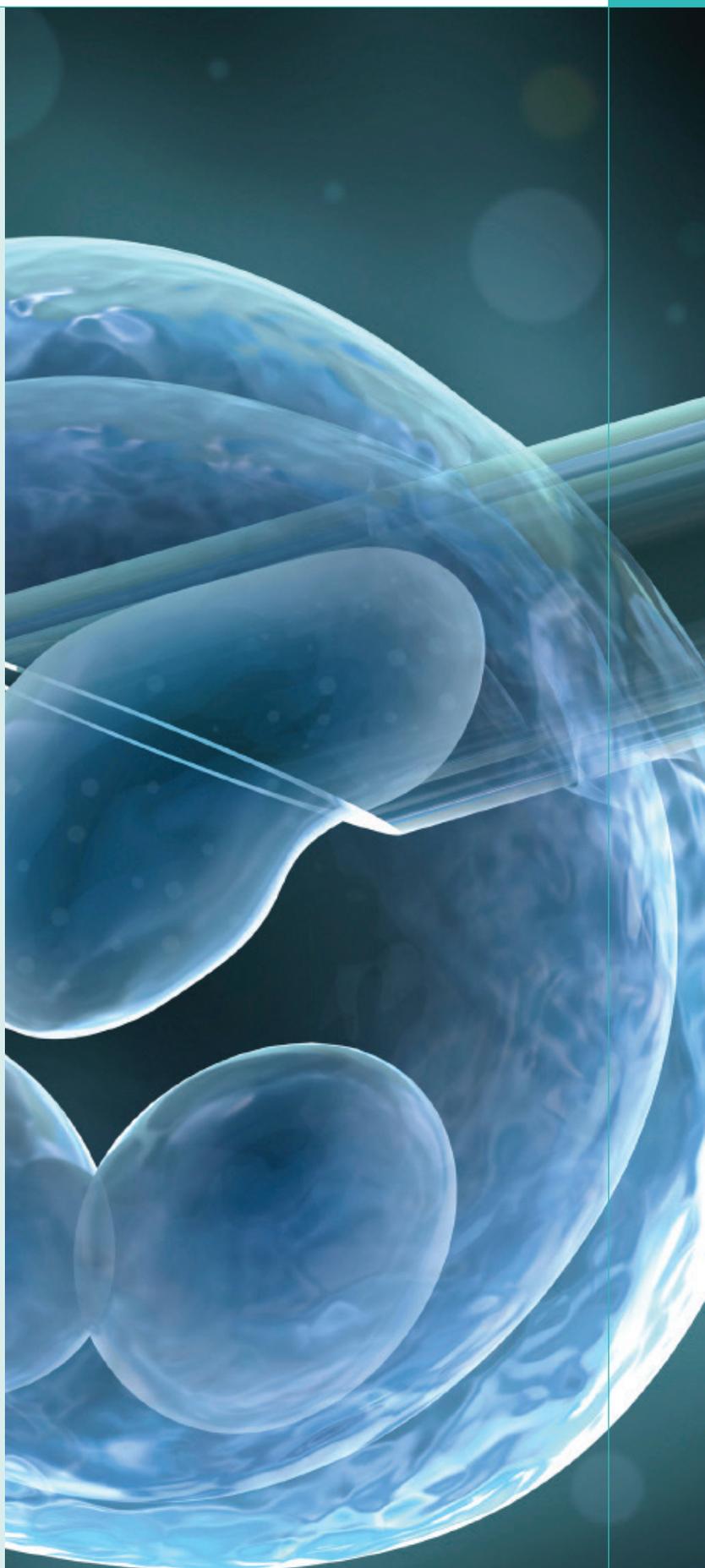
For difficult to handle solutions including viscous, volatile or high density liquids our positive displacement repeating dispensers ensure easy and precise delivery. They also make light work of all repeat volume delivery tasks, whatever your liquid.

For delicate work Drummond microdispensers ensure reproducible accuracy.

What's New?

- Nanoject III Autoinjector

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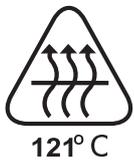
alpha+

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

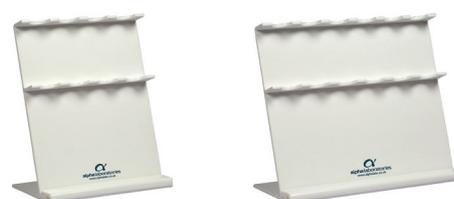
Catalogue Number	Volume Range	Increments μ l	Error of Trueness % at Nominal Volume	Imprecision % at Nominal Volume
8-Channel alpha+ Pipettes				
AP80010	0.5-10 μ l	0.1	1.5	1.5
AP80050	5-50 μ l	0.5	1.0	0.7
AP80100	10-100 μ l	1.0	1.0	0.5
AP80200	20-200 μ l	1.0	0.7	0.25
AP80300	30-300 μ l	1.0	0.8	0.25
12-Channel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

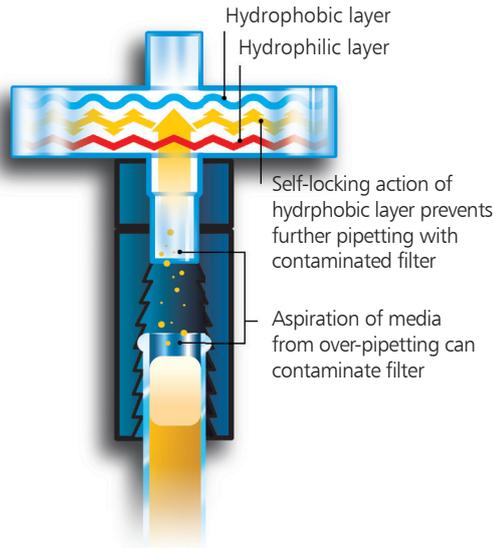
New designs have been developed to respond to the changing needs of the market and the latest models have a host of innovative features, providing great performance and ergonomics. With the widest choice of options available, you can select the Pipet-Aid to best suit your needs.

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
4-000-501-1	Pipet-Aid® Portable XP ² , 220V EURO Charger	Each

Accessories and Consumables for Pipet-Aid® XP ²		
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

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
4-000-051	Self-locking Filters	5
4-000-052	Self-locking Filters	50



Dual pump filtration unit as supplied with 4-131-221-E

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

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.

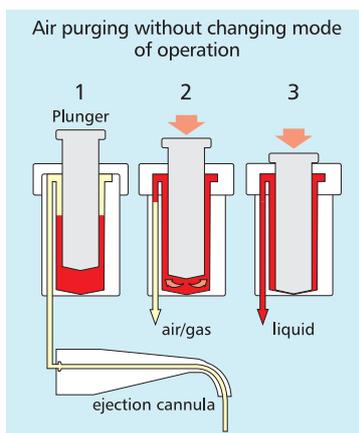
* Not suitable for use with solutions containing hydrofluoric acid, solids, or substances catalysed by platinum or iridium alloys



Normal dispensing mode



Safety lock feature – cannula turns 180°



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.



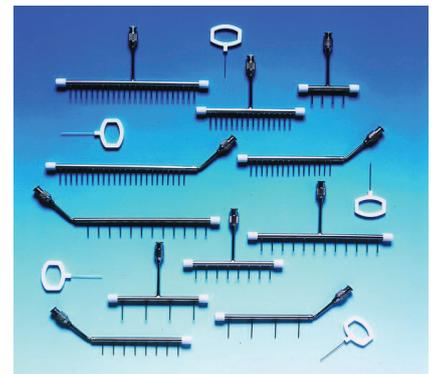
For replacement glass capillary tubes and plastic tips please see the following page.

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



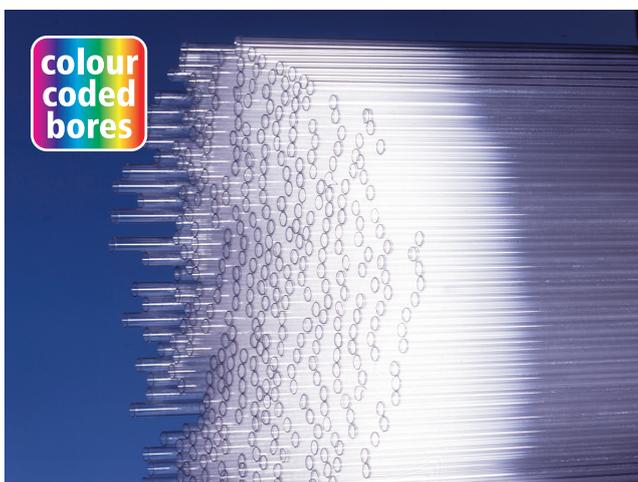
Spacer set included with 3-000-105



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



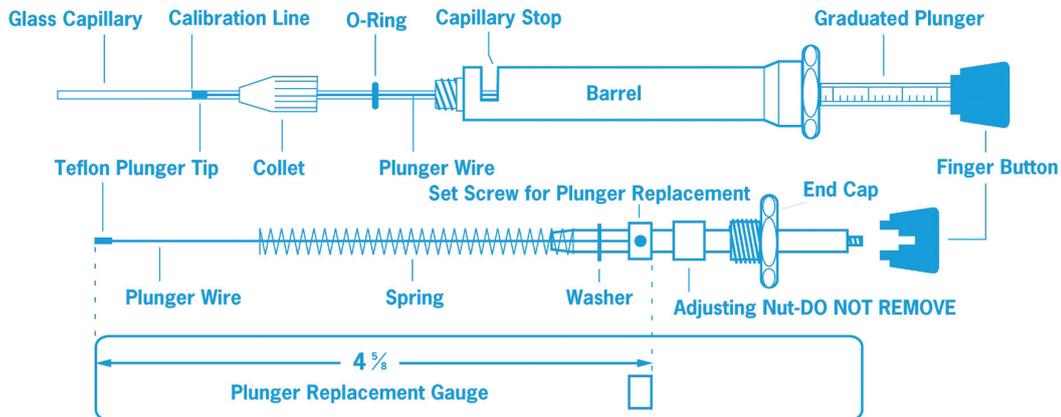
Drummond Microdispenser capillaries are suitable for use with all Microdispensers. They are manufactured from chemical resistant, borosilicate glass with the exception of the 1000 μ l bores which are manufactured from tough polypropylene. All microdispenser capillaries are colour coded to help you easily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

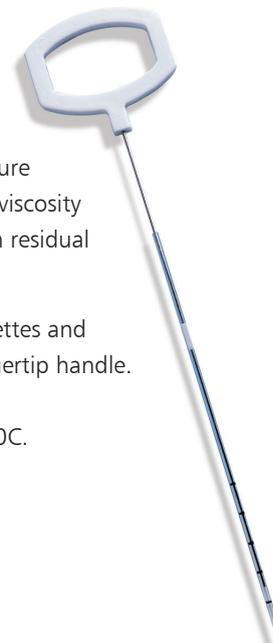
Catalogue Number	Description	Pack Size
3-000-510-X	Oocyte Pipette with 100 x 8" Glass Capillaries	Each
3-000-210-G8	10µl Oocyte Pipette Capillaries, 8"	100
3-000-210-G	10µl Microdispenser Capillaries, 3.5"	100
3-000-000-210-X	Wire Plunger for Oocyte Pipette	Each

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

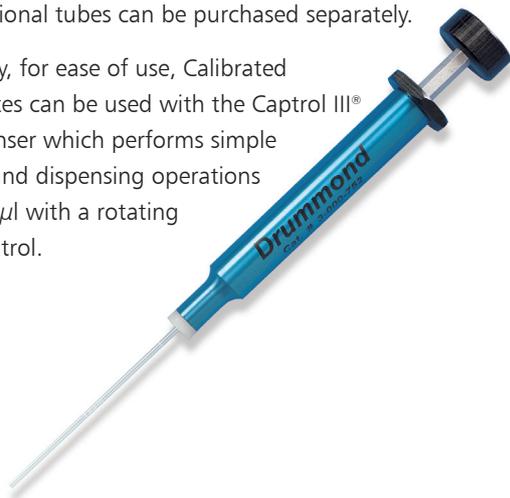
Calibrated Micropipettes



DRUMMOND SCIENTIFIC COMPANY Calibrated Micropipettes are fire polished, precision glass capillary tubes for accurate micro-volume transfer with a guaranteed accuracy of $\pm 0.5\%$. Each pack of Calibrated Micropipettes is supplied with a 15" aspirator tube. Additional tubes can be purchased separately.



Alternatively, for ease of use, Calibrated Micropipettes can be used with the Captrol III® microdispenser which performs simple aspirating and dispensing operations from 1-100µl with a rotating volume control.



Calibrated Micropipettes

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



DRUMMOND SCIENTIFIC COMPANY Hematocrit tubes are capillary tubes designed for both safe blood collection as well as accurate micro-hematocrit determinations. They are available in either plain or heparin-coated versions with a choice of 32mm and 75mm lengths.

The HEMATO-CLAD® Mylar® wrapped Haematocrit Tubes combine the precision of glass with the safety provided by a Mylar® overwrap. The HEMATO-CLAD® capillaries greatly reduce the risk of glass fragment or aerosol contamination to your samples.

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.

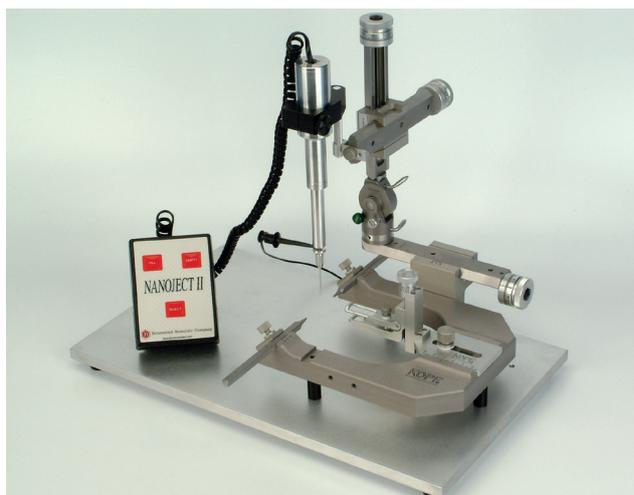
Handling of more viscous samples has also been improved, with no need for tedious recalibration if the viscosity changes.

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 adaptor 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.

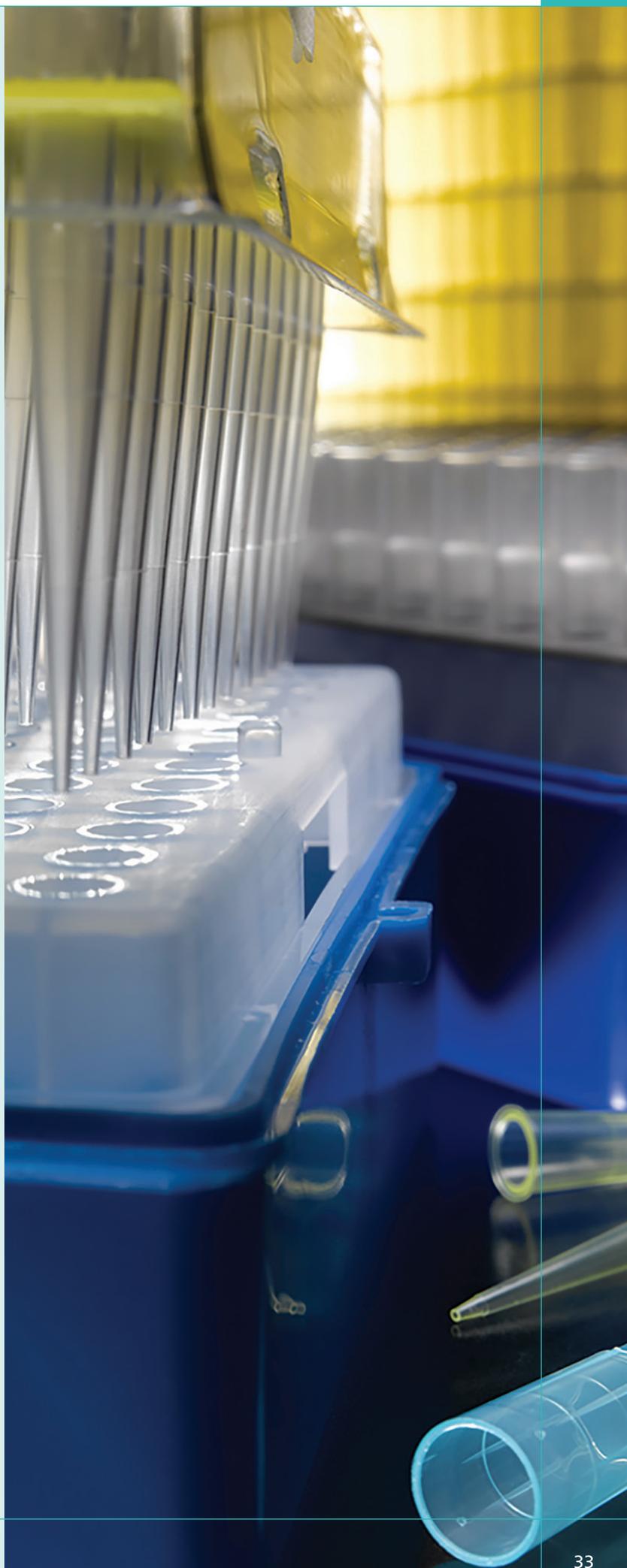
Alpha Laboratories never compromises on quality. Our tips are produced from the highest grade virgin polypropylene using computer-designed stainless steel moulds. The quality control process takes the tips through up to 92 checks from resin to final product to give you the quality reassurance you require.

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
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Other popular tips	48
Cellsaver and Gel Tips	54
Gel Loading and Cutting Tips	55
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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



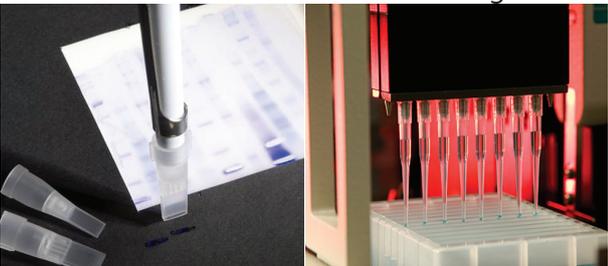
Optifit

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.



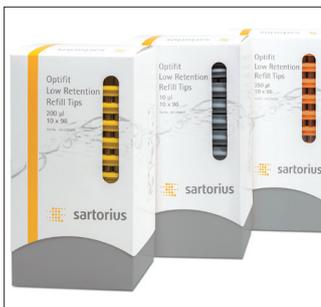
FlexiBulk

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.

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®N&T Single Channel	0.2-10
Sartorius (Biohit)	Picus®/Picus®N&T Multi Channel	0.2-10
	mLINE®/Proline Plus®	0.5-10
	Proline® 1	
Eppendorf®	Electronic	0.5-10
	Reference	0.1-2.5, 0.5-10
	Research Pro	0.5-10
	Research	0.1-2.5, 0.5-10
Gilson	Research Plus	0.5-10
	Pipetman	P2, 10
	Pipetman Ultra	U2, 10
Rainin®	Pipetman Classic,G,L	0.2-2, 1-10
	EDP3	
	EDP1	
	Pipet Lite SL	0.1-2, 0.5-10
Loose Non-Sterile		Pack Size 1000
Racked Non-Sterile		Cat. No. LW1126 Pack Size 12 x 96
Racked Sterile		Cat. No. LW1136 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 µl		0.1-10µl	0.1-10µl 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 µl		
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 CAPP Aero Single Ch	0.2-2, 0.5-10	0.2-2, 0.5-10	
	CAPP electronic and CAPP Aero 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	
Tip Coding and Certification Key available - see page 35   (Non-filter only) 				
<i>All tips are actual size</i>				
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	0.5-10	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

Fast racking

Less packing

Quality tips

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.

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

Transfer top made of recycled PET

Tips are certified DNA/DNase/RNase free lot by lot

Stack base made from recyclable bioplastic

Minimal package weight reduces waste and transport energy consumption

Transfer top keeps tips clean and prevents tip wobble during refilling. You refill without having to touch the tips or racks so no worries about contamination.

When opened **Fastrak**® is extremely stable

Printed with soya inks to reduce heavy metal pollution

Box made from 100% recycled paper

Reclosable package with small footprint takes up less space in the lab

Fastrak® Pipette Tip Refill System 10-1000µl

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.

Formats

- **Autoclavable** – **Fastrak** tips and racks can be autoclaved at 121C 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.



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

Tip Cat No.	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 Fit Picus®/Nt 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®/Nt 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				
Non-Sterile	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.

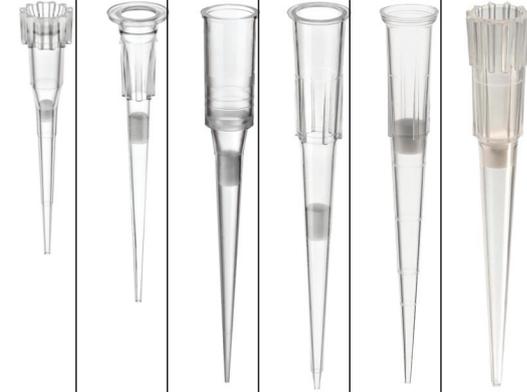
Protect your Sample

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®/Nt Single Channel	0.2-10	0.2-10		5-120	5-120, 10-300	5-120, 10-300	
	Picus®/Nt 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	
Eppendorf®	Proline® ¹	0.5-10	0.5-10			10-100		
	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)	
Finnpipette™	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	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	alpha+
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	Sartorius (Biohit)
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	Sartorius (Biohit)
		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	Eppendorf®
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(M/C)	50-1000	50-1000		Research Pro	
10-100	10-100	20-200	20-200		20-200	20-200(SC) 30-300(M/C)	100-1000	100-1000		Research	Gilson
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	Rainin®
			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	Thermo Electron Finnpipette™
		20-200					100-1000	100-1000		Digital	
10-100	10-100					30-300(M/C)	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 40-41 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 check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please 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

ZP2200S	ZP1200S	ZP1210S	ZP2250S	ZP3250S	ZP3300S	ZP1300S	ZP1250S	ZP1100S	ZP3000S	Cat. No.	 Racked Sterile
10 x 96	6 x 96	6 x 96	6 x 96	6 x 96	Pack Size						

*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.

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.

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



Clean Liquid Release

Low Retention

Filtered Tips

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

Tip Description and Volume Range μ l		Low Retention			
		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	
	Proline® 1	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	100-1000	
Eppendorf®	Electronic				
	Reference	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100, 50-200		
	Research Pro				
	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	
Gilson	Pipetman				
	Pipetman Ultra				
	Pipetman Classic, G, L	0.2-2, 1-10	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				
	Focus				
	Biocontrol				
	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	
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 check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please 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		
Loose Non-Sterile		Cat. No. Pack Size	RLD-10XLNS 10x96	RLD-250NS 10x96	RLD-1250NS 8x96
	Racked Reload		Cat. No. Pack Size		
Racked Sterile			Cat. No. Pack Size		
	Rack Compatibility			D	D



Paradigm™ Aerogard Filter Tips



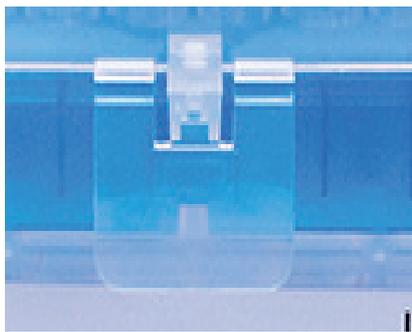
Paradigm racks are labelled with volume and lot information for easy identification



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®	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							
	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
Gilson	Pipetman	P2, 10	P20, 100	P200	P200	P20, 100		
	Pipetman Ultra	U2, 10	U20, 100	U200	U200	U20, 100		
	Pipetman Classic,G,L						2-20, 20-100, 50-200	200-1000
Rainin®	EDP3							
	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 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

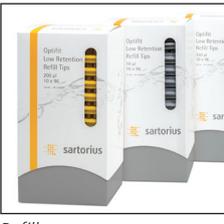
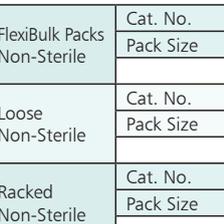


SARTORIUS

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									
 FlexiBulk Packs									
 Racked tips									
 Refill pack									
 Refill tower									
FlexiBulk Packs Non-Sterile			LH-B790204 960	LH-B790354 960	LH-B 791004 480	LH-B791204 480			
Loose Non-Sterile	Cat. No. 790014 Pack Size 1000							780300/780308 100/1000	780310/780316 100/250
Racked Non-Sterile	Cat. No. 790010 Pack Size 10 x 96	783210 10 x 96	790200 10 x 96	790350 10 x 96	791000 10 x 96	791200 10 x 96	791210 10 x 96	780304 50	
Racked Sterile	Cat. No. 790011 Pack Size 10 x 96	783211 10 x 96	790201 10 x 96	790351 10 x 96	791001 10 x 96	791201 10 x 96	791211 10 x 96	780305 50	
Refill Pack Non-Sterile	Cat. No. 790013 Pack Size 20 x 96				791002 10 x 96	791202 10 x 96	791212 10 x 96		
Refill Pack Sterile	Cat. No. Pack Size		790203 15 x 96	790353 15 x 96	791003 10 x 96	791203 10 x 96	791213 10 x 96		
Refill Tower Non-Sterile	Cat. No. 790012 Pack Size 10 x 96		790202 10 x 96	790352 10 x 96					

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

Sartorius (Biohit) Optifit Non-Filter Tips 10-1000 μ l