



LIQUID HANDLING TECHNOLOGY

*20 Years of TipOne®
- The Original -*

PRODUCTS FOR THE LABORATORY 2018

Pipette Tips, Robotic Tips, Pipettes,
Pipette Servicing, Consumables,
Cell Culture, Sample Storage,
Smart Instruments, Protection.

S T A R
L A B

Here it is: our new Catalogue!

Dear friends and customers of STARLAB,

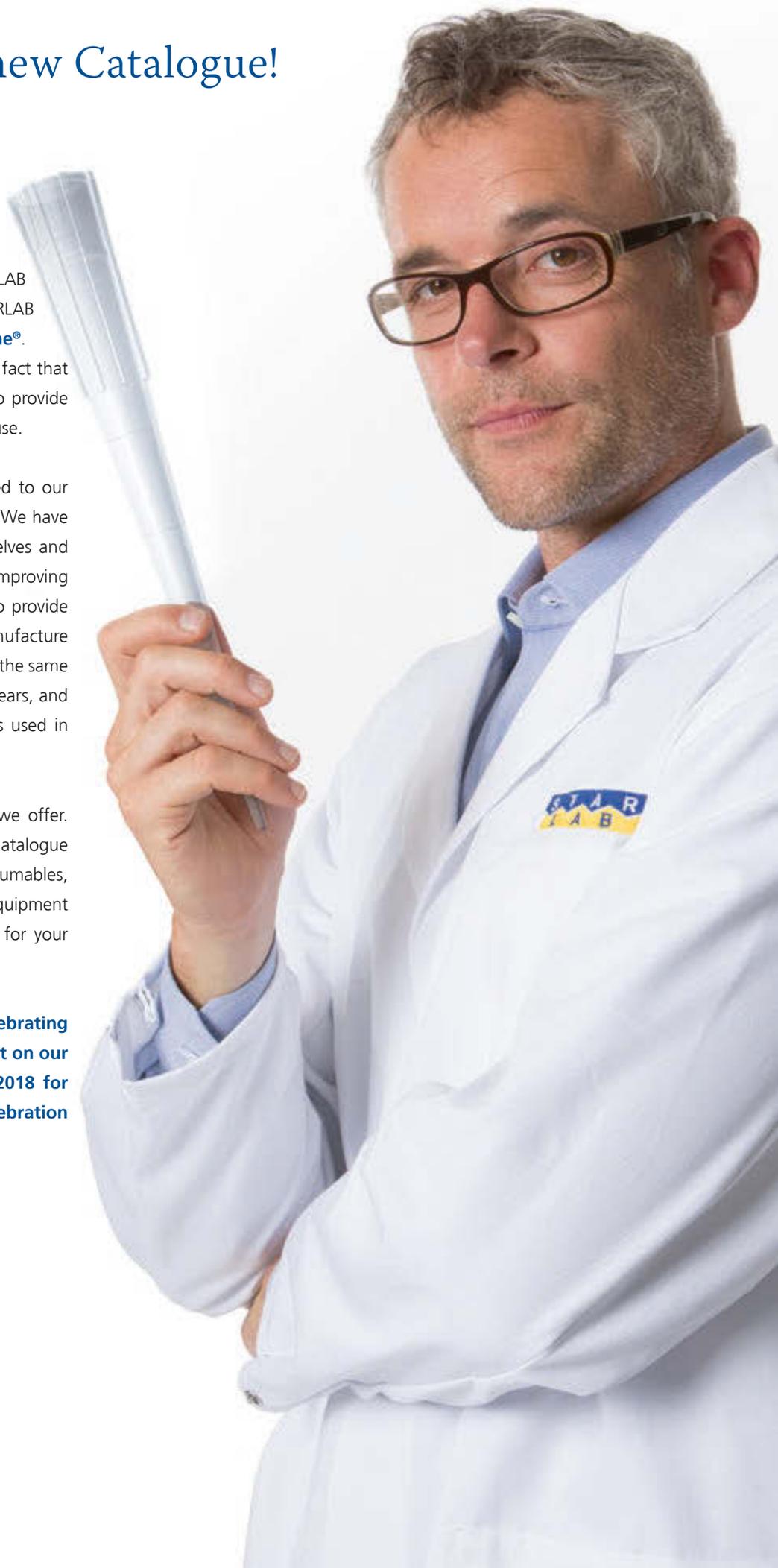
We are proud to present our new STARLAB Catalogue. 2018 is a special year for STARLAB because we celebrate **20 Years of TipOne®**. The success of TipOne® stems from the fact that it was the first system on the market to provide a refill system that was actually easy to use.

During those 20 years, we have listened to our customers' comments and suggestions. We have made improvements to the tips themselves and to the design of the product, as well as improving the manufacturing processes in order to provide high quality tips that are greener to manufacture and use less resources. TipOne® remains the same tip that you have used and trusted for years, and that is why it is one of the leading tips used in research labs across the world.

STARLAB is proud of all the products we offer. Alongside TipOne®, the 2018 STARLAB Catalogue offers the usual range of high-quality consumables, laboratory essentials and benchtop equipment that offer 'Intelligent Quality' solutions for your laboratory applications.

We hope you will join us in celebrating 20 years of TipOne®. Keep an eye out on our website or Facebook page during 2018 for competitions and giveaways in celebration of our 20th Birthday!

Your STARLAB team



Contents

▶ ABOUT STARLAB	02 – 06
• Quality & Service • Investing in the Future • Highlights 2018 • News	
▶ PIPETTE TIPS	07 – 32
• 20 Years of TipOne® • TipOne® Pipette Tips • Speciality Tips • Dispenser Tips	
▶ ROBOTIC TIPS	33 – 44
• Beckman Coulter® • Packard®/Perkin Elmer® • Qiagen® • Tecan® • Tip–Robot Compatibility • Robotic Reservoirs	
▶ PIPETTES	45 – 58
• Manual Pipettes • Electronic Pipettes • Pipette Controllers • Serological Pipettes • Repeat Dispenser	
▶ PIPETTE SERVICING	59 – 64
• The STARLAB Concept • Service Levels • Order Form	
▶ CONSUMABLES	65 – 100
• Tubes • PCR Consumables • Plates • Plate Sealing • Parafilm® • Reagent Reservoirs • Labelling	
▶ CELL CULTURE	101 – 116
• CytoOne® Overview • Cell Culture Dishes • Cell Culture Plates • Cell Culture Flasks • Cell Culture Filtration • Syringe Filters • Cell Culture Scrapers	
▶ SAMPLE STORAGE	117 – 134
• Storage Boxes & Racks • Benchtop Coolers • Stainless Steel Storage • Freezer Racking Systems	
▶ SMART INSTRUMENTS	135 – 156
• Mixers • Shakers • Stirrers • Dry Bath Incubators • Centrifuges • PCR Cabinets	
▶ PROTECTION	157 – 169
• Disposable Gloves	
▶ INDEX	170 – 178
• Alphabetical Index • Index by Catalogue Number • Note	



STARLAB Quality & Service

The STARLAB Group

The STARLAB Group specialises in the field of Liquid Handling Technology, offering a comprehensive product range that is available direct from its own organisations in France, Germany, Italy and the UK, as well as through many expert distributors throughout the world.

STARLAB's success is founded on its expertise in automated injection moulding processes for the manufacture of high quality laboratory consumables for research and development.

STARLAB products

Over the years, STARLAB has extended its portfolio and now has an extensive range of pipette tips, pipettes and other products for the laboratory.

STARLAB manufactured consumables are in daily use in laboratories throughout the world and have a proven track record of performance and reliability.

Quality Control procedures are second to none, ensuring the highest possible levels of cleanliness, with all products certified RNase, DNase, DNA and Pyrogen free.

The STARLAB promise

Quality, price and service are the principles on which the STARLAB Group is built. STARLAB is confident that you will find all their products to be of excellent quality and excellent value.

STARLAB Quality
Trust is good –
certification is better!



As an ISO 9001, ISO 14001 and ISO 13485 certified company, working procedures and processes at STARLAB are checked and audited regularly. Additionally, the quality of our products is continuously monitored.

"Our aim is to service
the laboratory market with
the very highest quality goods
and unrivalled levels
of service."



Investing in the Future

Sustainable and progressive

STARLAB prides itself on being a 'green' company from start to finish. We don't offer quick fixes or 'green gimmicks' to get a customer's attention, we believe in working on long-term strategies to reduce the company's impact on the environment.

As a manufacturer, STARLAB has control over the design and manufacture of its products. Our green ideas start at the design stage, and our research and development team is constantly looking at ways to more efficiently manufacture greener products.

As a young, innovative company, STARLAB has become a green leader in its field, setting the environmental standard for others to follow.

GREEN design

- ▶ TipOne® is the original, reusable, refillable and recyclable pipette tip system.
- ▶ Pack and case dimensions are designed to fit efficiently on a pallet to help save shipping costs.
- ▶ Pack and case cartons are made from recycled and recyclable cardboard.
- ▶ Our four newest TipOne® tips save substantial amounts of raw material, enabling us to minimise the volume of fossil oil used and reduce waste quantities.
- ▶ Thanks to the compact design of our recently redesigned TipOne® refill, a reduction by up to 60 % volume and up to 50 % weight (1 ml refill without tips) has been achieved, resulting in less consumption of resources and lowering CO₂ emissions during production and transportation



GREEN logistics

- ▶ Goods are transported by rail or sea whenever possible.

GREEN manufacturing

- ▶ Hot runner moulds to save on plastic usage
- ▶ Closed-water-cycle cooling processes save energy
- ▶ The use of modern, hybrid moulding machines consume much less energy than the older, hydraulic machines
- ▶ The use of multi-cavity moulds to consume less energy
- ▶ One third of the factory's energy is sourced from wind power

GREEN Marketing and Administration

- ▶ This catalogue and other STARLAB brochures and marketing materials are printed on carbon-neutral FSC paper.
- ▶ STARLAB continually reviews administrative processes to reduce, reuse and recycle all of its office consumables



Rotor-Gene® Style Discs

Unique design for precise work

These Rotor-Gene discs are specially made to be used with the Qiagen Rotor-Gene® Q Real-Time Rotary Analyzer.

Two models are available:

- ▶ a 72-well disc with 100 µl tubes (recommended reaction volume 20-25 µl) for use with the original Rotor-Disc® 72 Rotor and Rotor-Disc® 72 Locking Ring
- ▶ a 100-well disc with 30 µl tubes (recommended reaction volume 15-20 µl) for use with the original Rotor-Disc® 100 Rotor and Rotor-Disc® 100 Locking Ring

The discs are a one-piece “plate” equivalent, having vertically oriented wells compatible with automated reaction setup using a robotic liquid handling system.

Find out more details about the new **Rotor-Gene® Style Discs** on page 83.

HIGHLIGHTS

StarChill qPCR Chiller Rack

Maintain a fridge environment on the benchtop!

Unique for Rotor-Gene® tubes!
The centre section of the StarChill rack changes colour when frozen.

It then gradually turns back to its original colour as it warms up, thus giving an instant, visual-indication of the temperature.
The colour changes from blue to

white as the rack adjusts to ambient temperature.

Product features:

- ▶ Tube Capacity:
64 x 0.1ml Rotor-Gene® tubes,
16 x 0.2ml single tubes (or 2 x 8 strips), 4 x 0.5ml tubes
- ▶ Maintains sample temperature below 4°C for approximately 2.5 hours

StarChill qPCR Chiller Rack

See page 130 for details.



Mini Fuge Plus

New design for safer, faster working

Our next-generation Mini Fuge Plus is ideal for the quick spin down of condensate, vortexed or thawed samples. Microfiltration and cell separation up to 2000 x g is also possible.

Larger capacity

The new Mini Fuge Plus provides higher sample throughput for even more convenience at your bench. The microcentrifuge tube rotor holds eight tubes and is supplied with adapters in order to accommodate a range of volumes from 0.5ml to 2.0ml. The strip tube rotor holds up to 32 individual 0.2ml tubes or four 8-strips.

Quick release rotor system

Rotor exchange is quick and easy. No special tools are needed and the rotors can be changed in seconds.

Fast or gradual stop

To achieve rapid deceleration of the rotor, simply press the lid release button to activate a 'braked' stop.



Alternatively, press the power button to off and the rotor will come to a gradual stop.

Mini Fuge Plus

See page 153 for details.

Syringe Filters

Versatile filtration

These sterile filters are suitable for volumes from 10 ml to 200ml and the use for cell culture media and additives, biological solutions and buffers.

The syringe filters have pore sizes of 0.22 or 0.45 μm and a diameter of 33 mm.

Three different membrane types can be used for fast flow, low protein binding or general filtration and binding of trace proteins.

Easy identification

Filter membrane type is clearly printed on the filter housing colour coding for the two different pore sizes provides quick visual identification.

Economical, fast and safe filtration

The filters are designed to perform low hold-up volume to provide maximum recovery of your valuable solutions. The large filtration surface area allows you to filter your sample more easily.

High burst pressure and high bubble point membrane ensures safe operation.

Syringe Filters

See page 115 for details.



Anything else you need to know...



Newly designed website

We are very excited to celebrate our newly designed website. Our aim was to make our new website faster, easier to navigate, and more user-friendly. By browsing through our website you will find many new features, which will help you find the right products and to understand what our products can offer you.

Visit www.starlabgroup.com now!



TipFinder – Find the right tip for your pipette

Did you know STARLAB pipette tips fit most pipettes on the market? We created the STARLAB TipFinder for you to find the perfect tip match for your pipette.

STARLAB TipOne® pipette tips offers a wide range of choice - our standard TipOne® pipette tips, TipOne® Filter Tips or TipOne® RPT. To find the right tip for your pipette, visit www.starlab.click/tipfinder



Try before you buy

We are confident that our consumables will meet your research needs, but also understand the importance for you to be able to test a product before using it long-term for your valuable research. We offer the opportunity for you 'try before you buy' any consumable item!

www.starlab.click/samplerequest



STARGUARDselect

Let us help you select the right glove for the job in hand. STARGUARDselect can help you make the right decision by providing information on each glove's chemical breakthrough times.

STARGUARDselect will provide you with your personal protection solution in just a few clicks.

www.starlab.click/starguardselect

Pipette Tips

Always the right tip!

Our expertise in automated injection moulding provides all the tips you need for a diverse range of applications.



TipOne® PIPETTE TIPS

20 Years of TipOne®	10–11
TipOne® The Trusted Tip	12–13
A System with a System!	14
System Components Overview	15
The Perfect Rack	16
The Clever Refill	17
The Unique Filter Tip Refill	18
The Compact Stack Rack	19
The Self-Standing Bag	19
TipOne® Standard Tips	20–21
TipOne® Filter Tips	22–23
TipOne® RPT	24–25
TipOne® Recycling	26

SPECIALITY TIPS

Extended Length Tips	27
384-Format Tips	27
Large Volume Tips	28–29
Wide Orifice Tips	30
Gel Extraction Tool	30
Gel-Loading Tips	31

DISPENSER TIPS

TipOne® Repeat	32
----------------------	----

20 YEARS TIPONE® – THE ORIGINAL

The idea

Before the introduction of TipOne® in May 1998, researchers and technicians struggled with tip–pipette compatibility. Most labs work with different sets of pipette models from several suppliers. Best tip fit was provided only with the pipette tips supplied by the pipette manufacturer. STARLAB had the groundbreaking idea to design pipette tips to fit all popular pipettes. **ONE tip for all pipettes.** TipOne® was born and started its worldwide success!

Innovative from the very beginning

Graduations

The first TipOne® portfolio included pipette tips with graduations. More and more customers expect graduated tips and that is why the majority of our current tips are graduated.

XL tips

In the noughties, an increasing number of researchers asked for longer tips for better access into long tubes. STARLAB listened and developed the first TipOne® XL tips: 1250µl XL and 10/20µl XL. Both tips proved very successful and are still part of our portfolio.

UltraPoint

At the beginning of the 2010s a new trend was established: tips with a very thin-wall at the orifice. In 2014 STARLAB introduced the new spearhead of the TipOne® portfolio: the 200 µl UltraPoint tip. The thin-wall UltraPoint orifice helps to prevent sample hang up and makes it easier to touch-off the last drop of sample.

Thin-wall technology

Although TipOne® tips already fit perfectly to most pipettes, we continuously improve the tip fit further. We increased the flexibility of the new 200 µl UltraPoint and 1000 µl tip. The thin-wall tip collar now fits more pipettes even better, and reduces loading and ejection forces.

A system with a system

Another reason why TipOne® has been so successful is that it is truly one complete system. Convenience and quality are at the heart of the TipOne® system. All components are interchangeable, and the system comprises only two racks which means there is no cross referencing of which refill fits into which rack – it is so easy to use!

Green from the beginning

STARLAB has been a green company from the start. The first TipOne® tips were launched with an ecological refill system.

We are proud of our pipette tip system and hope you will join us in celebrating **20 Years of TipOne®**. Keep an eye out on our website, Facebook or Twitter pages during 2018 for competitions and give-aways in celebration of our **20th Birthday!**

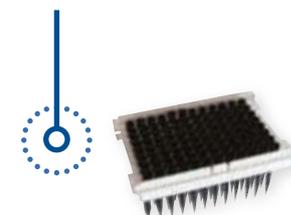


TipOne® was first introduced in **May 1998**. TipOne® tips were the first pipette tips fitting all popular pipettes.



The TipOne® system included a convenient refill system from the beginning.

2004 TipOne® RPT (Repel Polymer Technology) tips added to the range. STARLAB optimized conventional polypropylene surfaces in order to improve the flow of sticky liquids without adding a coating to the tips to interfere with samples.



2004 In awareness of ongoing automation in liquid handling, STARLAB introduced TipOne® tips for Tecan liquid handling workstations.



2009 STARLAB introduced the ErgoOne® pipette, the perfect pipetting partner for TipOne®.



2016 saw the introduction of the new TipOne® bags that conveniently stand up on the bench. The zip lock protects your tips for safe, contamination free storage.



2017 The new design Stack Rack is on the horizon. It will still have a wide base for stability but will feature a convenient transparent lid and layers. The new TipOne® system will then be complete.



2013 saw the start of the introduction of our next generation tips. Our newly designed, state of the art pipette tips have flexible thin-wall tip collars for a perfect fit. They are greener too - using up to 50% less material during manufacture.



2015 Our newly designed modern-looking rack provides stability and is robust enough to be used over and over again. You can see the quality of the perfect rack for yourself!



2014 Following customer feedback, colour-coded wafers were introduced to provide fast, visual identification of tip volume.



2015 The new clever refill provided benefits such as an even more compact design, plus all components are now made from easy to recycle polypropylene.



2018 - 20 Years of TipOne®!

20 Years of TipOne®! The same trusted tip in the newly designed, reusable, refillable and recyclable pipette tip system.

How do we improve something that is already perfect?

STARLAB's R&D team will continue to work with our customers on improvements for TipOne® to provide products that researchers want to use. STARLAB is committed to continuing to provide innovative, eco-friendly high quality products, *designed by you.*



2015 Launch of our unique sterile filter tip refill to the TipOne® system. The new refill provides an economical and eco-friendly alternative to racked filter tips.



The Trusted Tip

TipOne® is the original refillable, re-usable and recyclable pipette tip system. Recent improvements to the design of the system, based on customer-feedback, is why TipOne® is one of the leading tips for research labs.

Convenience and quality are at the heart of the system and TipOne® remains the same tip that you have used and trusted over the years.

Latest Technology! **Manufacture**

The use of multiple cavity tools for the injection moulding process guarantees high conformity within one batch. The automated moulding and assembling procedures are carried out under clean-room conditions to eliminate contamination.

Intensive! **Quality Control**

Automated Quality Control procedures ensure that TipOne® is inspected for 100% performance. Every TipOne® product is certified RNase®, DNase, DNA and Pyrogen free.

Sterile TipOne® tips have been validated according to EN ISO 11137-2:2007.

Unique collar

Our newest tips can be recognised by the jagged design on the tip collar.



TipOne®



Proven! **Material**

All TipOne® tips are manufactured from pure, virgin polypropylene to ensure the highest quality product.

Excellent! **Filter**

The TipOne® filter is one of the best on the market and protects against aerosol cross-contamination without trapping your valuable samples. The filters contain no additives to interfere with samples. For more info see pages 22–23.

* TipOne® tips in all packaging units Rack, Refill-System, Stack-Rack, Bag and Filter-Refill are designed and constructed for low-contamination transfer of liquids, in particular for samples from the human body and for reagents within the scope of an in-vitro diagnostic application in order to allow the in-vitro diagnostic device to be used as intended. The above mentioned TipOne® are in-vitro diagnostic devices according to Directive 98/79/EC of the European Parliament and the Council dated October 27, 1998. They are intended exclusively for single use and for application by qualified staff.

Thin-walled tip collar

The flexible tip collar fits all popular pipettes, even those with worn tip holders! Thin-wall technology ensures a perfect seal while also reducing the loading and ejection forces.

Universal!

Tip fit

One tip fits all! The tip collar is engineered to fit all popular pipettes.

Green tip design

A reduction of up to 40 % in the material used for the production of TipOne® tips helps to save valuable resources and is beneficial for the environment.

Thin-walled tip

The use of the latest injection-moulding processes produces high-precision, thin-walled tips with excellent clarity for better visibility of your samples.

UltraPoint orifice

Prevents sample hang up and makes it easier to touch-off the last drop of sample.

Brilliant!

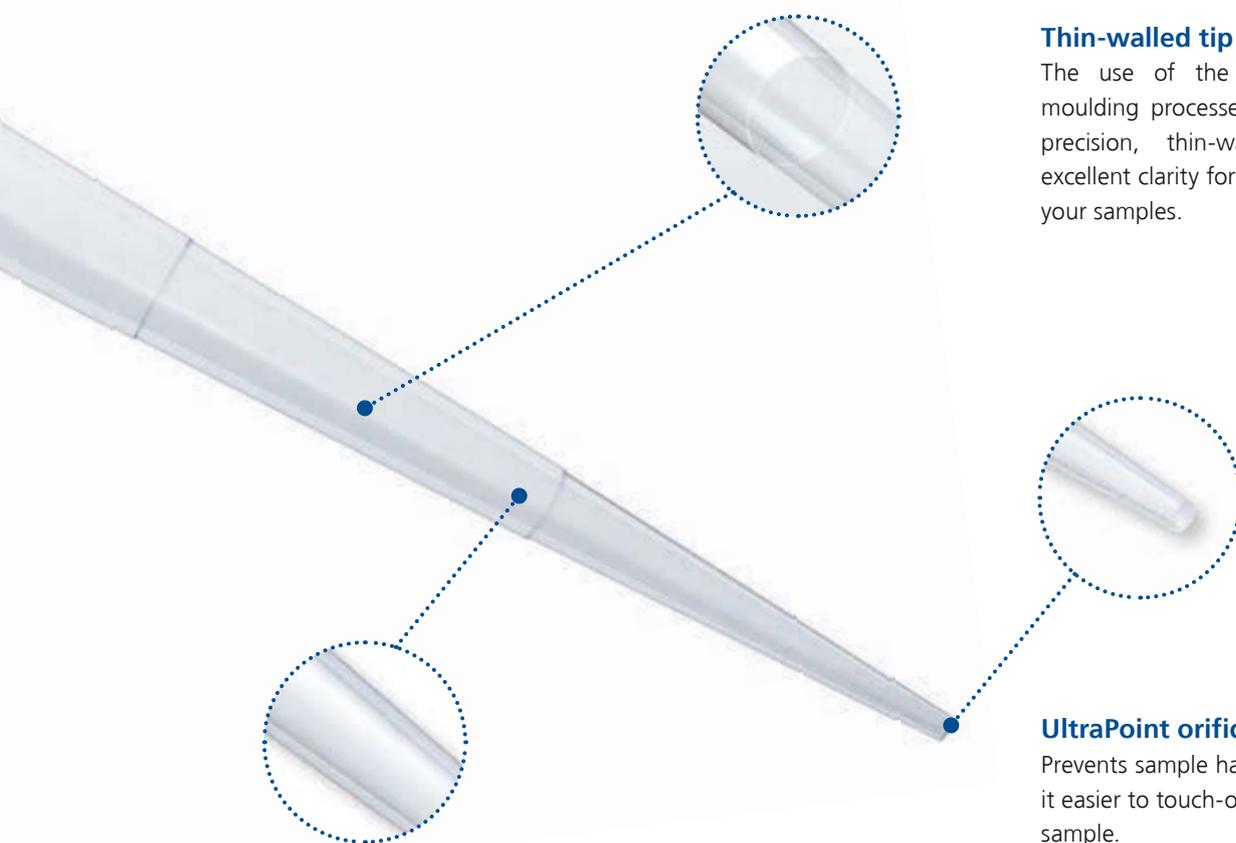
Highly polished moulds

For an extremely smooth surface to reduce sample retention.

Low Retention!

TipOne® RPT

For improved flow dynamics of sticky liquids. For more information see pages 24–25.



A system with a system!

One System, One Solution!

The TipOne® system is reusable, refillable and recyclable and every part of the system is interchangeable with the rest.

Compact, durable and green design

TipOne® is designed to be a green system. Our refill design reduces the amount of raw materials needed for its manufacture, resulting not only in less consumption of resources, but also the lowering of CO₂ emissions during production and transportation. Not only is this more environmentally-friendly, its compact design also helps save valuable storage space in your lab. The remarkable durability of our racks means they can be reused with the refill again and again, even if autoclaving, without any loss to their stability or shape. All components of the TipOne® system are made from pure polypropylene (PP) for easy recycling where no separation of materials is required.



Intelligent quality

For us, providing you, the user, with all the information you need while you are pipetting at the bench is "Intelligent Quality". Our tip wafer contains all the useful information on the tips that it holds.

Clever

A 2D matrix code on each wafer allows full traceability of item and lot number, which is ideal for labs using Laboratory Information Management Systems (LIMS). Experience tells us that our racks are refilled many times and having this information on the wafer avoids errors when racks are refilled with a different type or volume of tip.

Colour coded wafers for easy volume identification

Colour-coded wafers provide fast and easy volume identification at a glance

Simple!

The system comprises **two racks only**: one small, one large. Small rack for use with tip volumes 10 µl to 300 µl; large rack for use with tip volumes 1000 µl and 1250 µl. Using our refills and reusing our racks could not be easier.

TipOne®

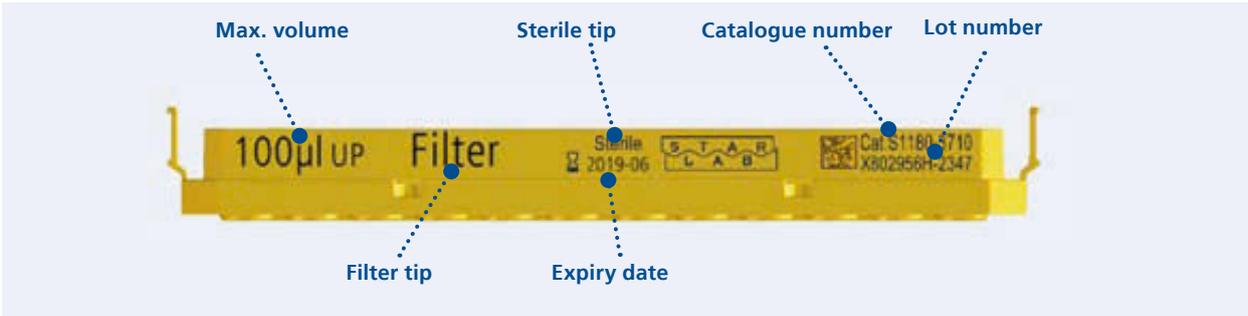


- 10 – 20 µl (micro tips)
- 20 – 200 µl
- 300 µl
- 1000 – 1250 µl
- TipOne® RPT (all volumes)

System Components Overview



Traceability on every tip wafer across the system



All TipOne® tips are certified RNase, DNase, DNA & Pyrogen free. The tips are designed to fit all popular pipettes without any loss of accuracy or precision.



The Perfect Rack

The perfect Rack

The rack is at the heart of the TipOne® pipette tip system:

- ▶ Made from pure polypropylene for excellent stability and durability
- ▶ Optimised base geometry and centre of gravity provides secure and precise handling
- ▶ Available in two sizes: small for tip volumes 10 µl to 300 µl and large for 1000 µl and 1250 µl tips
- ▶ Tip information is printed directly on the wafer, so you always know the volume and type of tips you are using, whether the tips were originally racked, or the rack is being reused with a refill.
- ▶ All components made of recyclable polypropylene

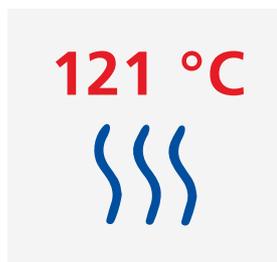


Remarkable durability



User friendly

Super transparent lid provides protection for the tips whilst still allowing a clear view of the contents and information printed on the wafer



Autoclavable

Designed for prolonged and repeated use, TipOne® racks withstand repeated autoclave cycles while retaining stability, strength and shape. Autoclave with the lid closed and reduce the number of autoclave cycles by saving space in the autoclave and energy costs.



Stackable

The racks are designed to stack safely on top of one another to help save valuable lab space.



Ideal for multi-channels

Unrestricted multi-channel access is provided by the optimised opening angle of the lid and the design of the wafer. The rack's base geometry and centre of gravity provides stability and the sturdy wafer ensures a secure tip fit across all channels.

The Clever Refill

The clever Refill

- ▶ A quick and easy way to obtain economical racked tips.
- ▶ Eco-friendly refills which use less resources
- ▶ Supplied in two individually-wrapped stacks of five wafers
- ▶ Tip information printed on the wafers can be seen easily without having to expose the tips.
- ▶ Spacers between the layers protect tips from contamination (10/20µl, 300µl and 1000µl volumes only)
- ▶ Once racked, the refills can be autoclaved
- ▶ All components made of recyclable polypropylene



Quick and easy to use



Separate the refill
The two-part label splits easily to provide two, individually-sealed stacks of tips.



Remove the top refill
Remove the protective film and lift the top wafer, including the top shell, off the stack. (The spacer below the wafer will lift too.)



Refill the rack
Place the wafer, top shell, and spacer directly into the empty rack. The refill will click securely in place.



Start pipetting
Remove the lid and you are ready to start pipetting. Refilling a rack takes only a few seconds!

Protecting your unracked refills

The top shell (or refill lid) can remain inside the refilled rack for extra protection, or if you are not racking all five refills at the same time, it can be placed back on the top layer of the open refill. This will protect the remaining tips of the refill (There's no need to take off the bottom shell when transferring the last wafer. Both bottom shell and wafer fit inside the new rack.)



The Unique Filter Tip Refill

The unique Filter Tip Refill

Provides an economical and eco-friendly alternative to racked sterile filter tips

- ▶ Quick and easy to load
- ▶ Individually wrapped
- ▶ Sterility is not compromised during racking
- ▶ Space saving - using sterile filter refills to reload racks directly during long periods in hoods and PCR workstations saves up to 20% precious space
- ▶ All components are made from easy to recycle polypropylene



Quick and easy to use!



Unwrap
Use the "PULL TO OPEN" strip to remove the outer wrap.



Refill
Hold the refill by the finger tabs on either end and place the entire unit inside an empty rack until the wafer clicks into place.



Start pipetting
Remove the refill cover and you're ready to go!



Recycle your waste
The bottom shells of the refill are nestable and save volume.



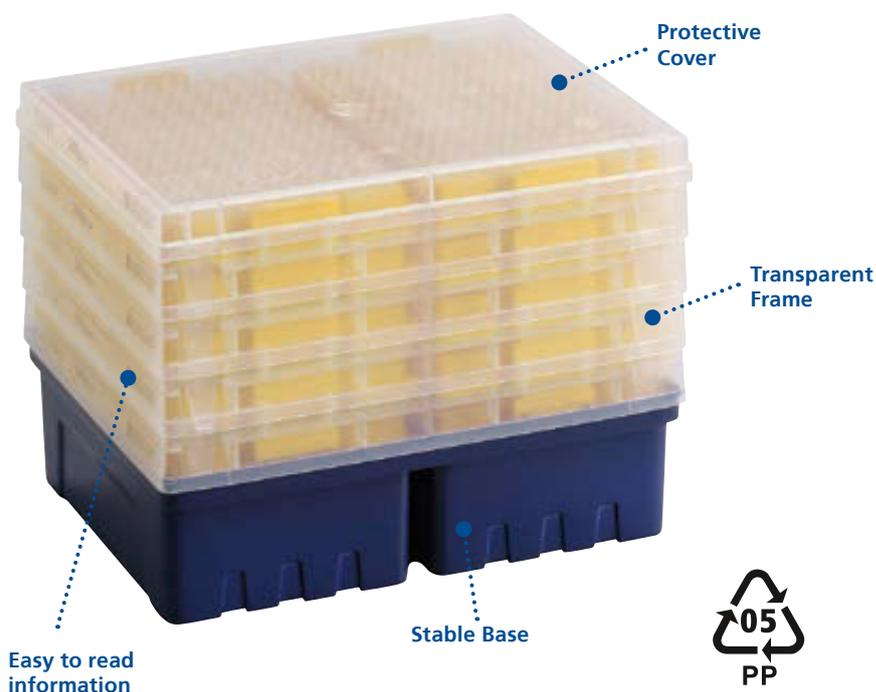
Unique Design
The filter tip refill can only be used in the new-style TipOne® racks which have the TipOne® logo on the front and three indentations on either side.

The Compact Stack Rack

The compact Stack Rack

The Stack Rack provides 960 tips in one convenient and compact unit,

- ▶ Wide base for great stability
- ▶ Excellent choice for multi-channel use
- ▶ Transparent lid protects the tips when not in use
- ▶ Tip information printed on the wafers can be read easily through the transparent lid without having to expose the tips
- ▶ Autoclavable
- ▶ All components are made from easy to recycle polypropylene

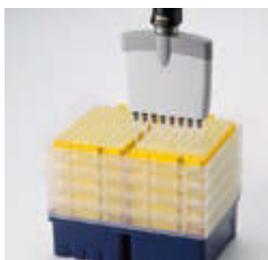


How it works:



Compact

960 tips in the palm of your hand. Small footprint saves valuable bench space. Use straight from the stack.



Stable

Wide base for excellent stability, even with multi-channel use. The inter-locked layers will not lift or loosen during use.



High-throughput

Remove each layer once you have used the tips to reveal the new layer of tips beneath.



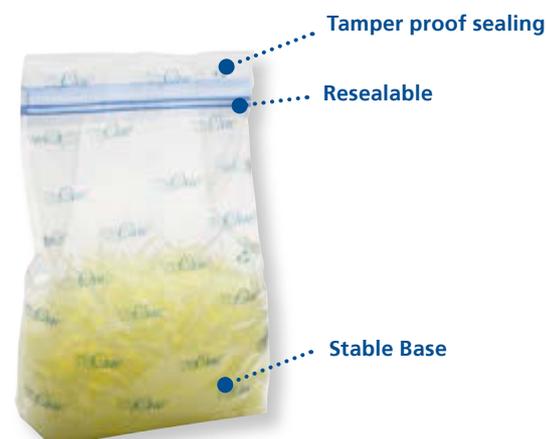
Safe storage

Replace the lid when not in use to keep your tips clean, tidy and safe.

The Self-Standing Bag

The self-standing Bag

- ▶ Self-standing bag for easy and convenient access and storage
- ▶ Tamper-proof, easy-open perforation strip on bag
- ▶ Resealable zip-lock for safe, contamination-free storage
- ▶ Economical – ideal for teaching labs or non-critical work
- ▶ Recyclable





PIPETTE TIPS	Racked	Racked (Sterile)	Refill
	10 x 96-Tip Racks	10 x 96-Tip Sterile Racks	10 x 96-Tip Refills
 10 µl Graduated Tip (Graduations: 2,5 µl, 10 µl)	S1111-3800 S1111-3800-C (8)	S1111-3810 S1111-3810-C (8)	S1111-3700 S1111-3700-C (10)
 10/20 µl XL Graduated Tip (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	S1110-3800 S1110-3800-C (8)	S1110-3810 S1110-3810-C (8)	S1110-3700 S1110-3700-C (10)
 200 µl Tip	S1111-0800 S1111-0800-C (8)	S1111-0810 S1111-0810-C (8)	S1111-0700 S1111-0700-C (10)
 200 µl Yellow Tip	S1111-0806 S1111-0806-C (8)	S1111-0816 S1111-0816-C (8)	S1111-0706 S1111-0706-C (10)
 200 µl Bevelled Tip	S1111-1800 S1111-1800-C (8)	S1111-1810 S1111-1810-C (8)	S1111-1700 S1111-1700-C (10)
 200 µl Yellow, Bevelled Tip	S1111-1806 S1111-1806-C (8)	S1111-1816 S1111-1816-C (8)	S1111-1706 S1111-1706-C (10)
 200 µl UltraPoint Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	S1113-1800 S1113-1800-C (8)	S1113-1810 S1113-1810-C (8)	S1113-1700 S1113-1700-C (10)
 200 µl UltraPoint Yellow Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	S1113-1806 S1113-1806-C (8)	S1113-1816 S1113-1816-C (8)	S1113-1706 S1113-1706-C (10)
 300 µl Graduated Tip (Graduations: 100 µl, 200 µl, 300 µl)	S1110-9800 S1110-9800-C (8)	S1110-9810 S1110-9810-C (8)	S1110-9700 S1110-9700-C (10)
 1000 µl Graduated Tip (Graduations: 250 µl, 500 µl, 1000 µl)	S1111-6800 S1111-6800-C (4)	S1111-6810 S1111-6810-C (4)	S1111-6700 S1111-6700-C (10)
 1000 µl Blue Graduated Tip (Graduations: 250 µl, 500 µl, 1000 µl)	S1111-6801 S1111-6801-C (4)	S1111-6811 S1111-6811-C (4)	S1111-6701 S1111-6701-C (10)
 1250 µl XL Graduated Tip (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	S1112-1820 S1112-1820-C (4)	S1112-1830 S1112-1830-C (4)	S1112-1720 S1112-1720-C (10)

NOTES: All tips shown actual size - "-" = not available.

Cat. Nos ending in -C are case sizes, the number in brackets = no. of packs per case.



			
Stack Rack	Stack Rack (Sterile)	Loose	Colour Coding
1 x 960-Tip Stack	1 x 960-Tip Sterile Stack	1000 / Bag	
S1111-3200 S1111-3200-C (10)	S1111-3210 S1111-3210-C (10)	S1111-3000 S1111-3000-C (50)	●
-	-	S1110-3000 S1110-3000-C (50)	●
S1111-0200 S1111-0200-C (10)	S1111-0210 S1111-0210-C (10)	S1111-0000 S1111-0000-C (25)	●
S1111-0206 S1111-0206-C (10)	-	S1111-0006 S1111-0006-C (25)	●
S1111-1200 S1111-1200-C (10)	S1111-1210 S1111-1210-C (10)	S1111-1000 S1111-1000-C (25)	●
S1111-1206 S1111-1206-C (10)	-	S1111-1006 S1111-1006-C (25)	●
S1113-1200 S1113-1200-C (10)	-	S1113-1000 S1113-1000-C (25)	●
S1113-1206 S1113-1206-C (10)	S1113-1216 S1113-1216-C (10)	S1113-1006 S1113-1006-C (25)	●
-	-	S1110-9000 S1110-9000-C (25)	●
-	-	S1111-6000 S1111-6000-C (20)	●
-	-	S1111-6001 S1111-6001-C (20)	●
-	-	S1112-1020 S1112-1020-C (16)	●



All racked and refill TipOne® products are supplied in these easily identifiable shelf boxes.



When ordering by the case (part numbers ending with -C) all product is supplied in case cartons, identifiable by the black TipOne® logo.



All TipOne® tips are certified RNase, DNase, DNA & Pyrogen free. The tips are designed to fit all popular pipettes without any loss of accuracy or precision.





TipOne® Filter Tips

Nothing goes through!

Protect your samples against unwanted contamination by using TipOne® filter tips. During pipetting, it is not possible to see with the eye if fine aerosols are going into your pipette. If they are, those aerosols can contaminate other samples at a later date. The TipOne® filter protects against aerosol cross-contamination without trapping your valuable samples.

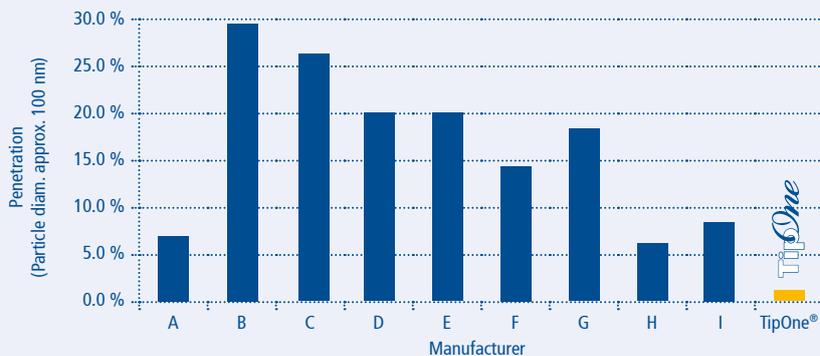
TipOne® filter tips contain no additives to interfere with your samples and are one of the best filters available on the market. They are proven* to block >99% of aerosols. The results, shown below, speak for themselves!

Filter Tip features

- ▶ Highly effective HDPE filter
- ▶ Filter contains no additives to interfere with your samples
- ▶ The filter will not absorb samples, allowing recovery if necessary
- ▶ Sterile, and RNase, DNase, DNA and Pyrogen free

FREE SAMPLE
TRY
before you
BUY
available on request

Aerosol transmission of TipOne® filter tips compared to other manufacturers' filter tips



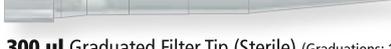
*The comparative tests were conducted in an independent test institute with filter tips from other leading manufacturers.

Easy-open sterile packaging!

Unlike some sterile racks where you need a knife to open them, the plastic wrap on TipOne® filter tip racks and refills is quick and easy to open with a pull tab.





FILTER TIPS (STERILE)	Racked (Sterile)	Filter Refill (Sterile)	Colour Coding
	10 x 96-Tip Sterile Racks	10 x 96-Tip Filter Refills	
 10 µl Graduated Filter Tip (Sterile) (Graduations: 2,5 µl, 10 µl)	S1121-3810 S1121-3810-C (8)	S1121-2710 S1121-2710-C (8)	
 10/20 µl XL Graduated Filter Tip (Sterile) (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	S1120-3810 S1120-3810-C (8)	S1120-3710 S1120-3710-C (8)	
 20 µl Bevelled Filter Tip (Sterile)	S1120-1810 S1120-1810-C (8)	S1120-1710 S1120-1710-C (8)	
 20 µl UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl)	S1123-1810 S1123-1810-C (8)	S1123-1710 S1123-1710-C (8)	
 50 µl Bevelled Filter Tip (Sterile)	S1120-2810 S1120-2810-C (8)	S1120-2710 S1120-2710-C (8)	
 100 µl Bevelled Filter Tip (Sterile)	S1120-1840 S1120-1840-C (8)	S1120-1740 S1120-1740-C (8)	
 100 µl UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl, 50 µl, 100 µl)	S1123-1840 S1123-1840-C (8)	S1123-1740 S1123-1740-C (8)	
 200 µl Graduated Filter Tip (Sterile) (Graduations: 50 µl, 100 µl, 200 µl)	S1120-8810 S1120-8810-C (8)	S1120-8710 S1120-8710-C (8)	
 300 µl Graduated Filter Tip (Sterile) (Graduations: 100 µl, 200 µl, 300 µl)	S1120-9810 S1120-9810-C (8)	S1120-9710 S1120-9710-C (8)	
 1000 µl Filter Tip (Sterile)	S1126-7810 S1126-7810-C (4)	S1126-7710 S1126-7710-C (4)	
 1000 µl XL Graduated Filter Tip (Sterile) (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	S1122-1830 S1122-1830-C (4)	S1122-1730 S1122-1730-C (4)	

NOTES: All tips shown actual size. Order Codes ending in -C are case sizes, the number in brackets = no. of packs per case.

TipOne® Filters

TipOne® filters are made from high density pure polyethylene (HDPE) and contain no additives which can interfere with your samples. TipOne® filters are hydrophobic and will not absorb your valuable samples in the way “sealing filters” do.



TipOne® RPT

TipOne® Pipette Tips



Leading manufacturer's low retention tip with green food dye

TipOne® RPT with green food dye

RPT: A technical breakthrough!

STARLAB's Repel Polymer Technology (RPT) optimises conventional polypropylene surfaces to improve the flow of 'sticky' liquids.

STARLAB's TipOne® RPT tips have no coating to interfere with your sample and offer an extremely hydrophobic surface.



All TipOne® RPT tips are certified RNase, DNase, DNA and Pyrogen free.

TipOne® tips are designed to fit all popular pipettes without any loss of accuracy or precision.

TipOne® RPT tips are supplied in the same style packaging as other TipOne® tips. Therefore, the RPT refills and filter refills can be used in the racks from all other TipOne® tips, and vice versa!

RPT Tip Features

- ▶ No coating! Made from 100 % virgin polypropylene
- ▶ Improved sample recovery
- ▶ Reduced DNA binding
- ▶ Autoclavable
- ▶ Fits all popular pipettes
- ▶ Reusable, refillable and recyclable system



FREE SAMPLE
TRY
before you
BUY
available on request

RPT TIPS	Racked	Refill
	10 x 96-Tip Racks	10 x 96-Tip Refills
 10 µl RPT Graduated Tip (Graduations: 2,5 µl, 10 µl)	-	S1161-3700 S1161-3700-C (10)
 10/20 µl RPT XL Graduated Tip (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	S1160-3800 S1160-3800-C (8)*	S1160-3700 S1160-3700-C (10)
 200 µl RPT Bevelled Tip	S1161-1800 S1161-1800-C (8)*	S1161-1700 S1161-1700-C (10)
 200 µl RPT UltraPoint Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	S1163-1800 S1163-1800-C (8)*	S1163-1700 S1163-1700-C (10)
 300 µl RPT Graduated Tip (Graduations: 100 µl, 200 µl, 300 µl)	S1160-9800 S1160-9800-C (8)*	S1160-9700 S1160-9700-C (10)
 1250 µl RPT XL Graduated Tip (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	S1161-1820 S1161-1820-C (4)	S1161-1720 S1161-1720-C (10)

NOTES: All tips shown actual size. "-" = not available. Cat. Nos ending in -C are case sizes, the number in brackets = no. of packs per case.
 * New-style system case sizes, which will be introduced gradually during 2017. All parts numbers will stay the same.



RPT FILTER TIPS (STERILE)	Racked (Sterile)	Filter Refill (Sterile)
	10 x 96-Tip Sterile Racks	10 x 96 Sterile Filter Refills
 10 µL RPT Graduated Filter Tip (Sterile) (Graduations: 2,5 µL, 10 µL)	S1181-3810 S1181-3810-C (8)	S1181-3710 S1181-3710-C (8)
 10/20 µl RPT XL Graduated Filter Tip (Sterile) (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	S1180-3810 S1180-3810-C (8)	S1180-3710 S1180-3710-C (8)
 20 µl RPT Bevelled Filter Tip (Sterile)	S1180-1810 S1180-1810-C (8)	S1180-1710 S1180-1710-C (8)
 20 µl RPT UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl)	S1183-1810 S1183-1810-C (8)	S1183-1710 S1183-1710-C (8)
 100 µl RPT Bevelled Filter Tip (Sterile)	S1180-1840 S1180-1840-C (8)	S1180-1740 S1180-1740-C (8)
 100 µl RPT UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl, 50 µl, 100 µl)	S1183-1840 S1183-1840-C (8)	S1183-1740 S1183-1740-C (8)
 200 µl RPT Graduated Filter Tip (Sterile) (Graduations: 50 µl, 100 µl, 200 µl)	S1180-8810 S1180-8810-C (8*)	S1180-8710 S1180-8710-C (8)
 300 µl RPT Graduated Filter Tip (Sterile) (Graduations: 100 µl, 200 µl, 300 µl)	S1180-9810 S1180-9810-C (8)	S1180-9710 S1180-9710-C (8)
 1000 µl RPT XL Graduated Filter Tip (Sterile) (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	S1182-1830 S1182-1830-C (4)	S1182-1730 S1182-1730-C (4)

NOTES: All tips shown actual size. "-" = not available. Cat. Nos ending in -C are case sizes, the number in brackets = no. of packs per case.

TipOne® Recycling

We can ALL do our bit to help the environment...

► **Reuse the TIP RACKS with the REFILL**

TipOne® is designed as a reusable system and all racks within the system (standard tips, filter tips and TipOne® RPT) can be reused with both the standard and filter tip refills.

► **If plastics recycling is available at your account, INCLUDE the TipOne® packaging**

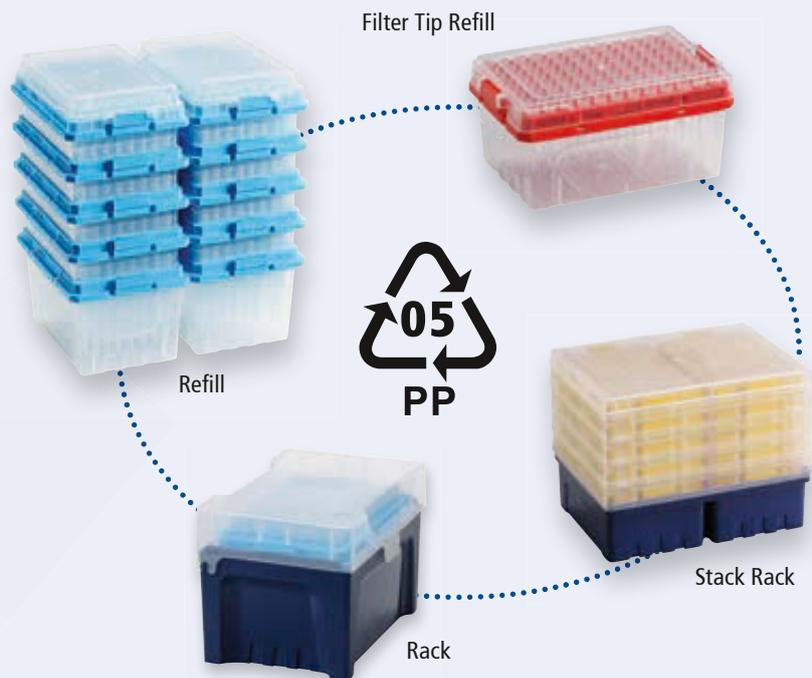
All components of the TipOne® system are made from polypropylene (PP), so the rack, the refill wafers, and the refill's spacers and top and bottom shells, can all go into the same recycling bag or bin at your site.



What WE do to help the environment...

As a manufacturer, STARLAB has control over the design and manufacture of its products. Our green ideas start at the design stage, and our research and development team is constantly looking at ways to more efficiently manufacture greener products. As a young, innovative company, STARLAB has become a green leader in its field, setting the environmental standard for others to follow.

www.starlab.click/recycling



Extended Length Tips

Extended Length Tips				
All tips are certified and natural in colour	Pack Type	Sterile	Pack Size	Cat. No
 <p>200 µl XL Tip For use with but not limited to: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	No	1000	I1011-0020
	204-Tip Rack	No	8 x 204	I1011-0920
	204-Tip Rack	Yes	8 x 204	E1011-0921
 <p>200 µl XL Filter Tip For use with but not limited to: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	Yes	100 x 1 (individually wrapped)	I1011-0070
	204-Tip Rack	Yes	8 x 204	I1011-0830
 <p>200 µl XL Filter Tip For use with but not limited to: ErgoOne®, Eppendorf®, Finnpipette®, MLA®</p>	100-Tip Rack	Yes	8 x 100	I1011-5830
 <p>1000 µl XL Bevelled Tip For use with but not limited to: ErgoOne®, Gilson®, Biohit® (single-ch), Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	No	1000	E1011-1002
	100-Tip Rack	No	10 x 100	E1011-1430
 <p>1000 µl XL Bevelled Filter Tip For use with but not limited to: ErgoOne®, Gilson®, Biohit® (single-ch), Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	No	1000	E1011-1008
	100-Tip Rack	Yes	10 x 100	I1026-7810
 <p>1250 µl XL Filter Tip For use with but not limited to: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®</p>	96-Tip Rack	Yes	8 x 96	I1011-3010

NOTES: All tips shown actual size.

384-Format Tips

384-Format Tips				
Certified RNase, DNase and Endotoxin free	Pack Type	Sterile	Pack Size	Cat. No
 <p>30 µl CAPP-Style 384-Format Tip For use with but not limited to: CAPP® 16-Channel</p>	384-Tip Rack	No	10 x 384	E3840-3000
	384-Tip Rack	Yes	10 x 384	E3840-3010

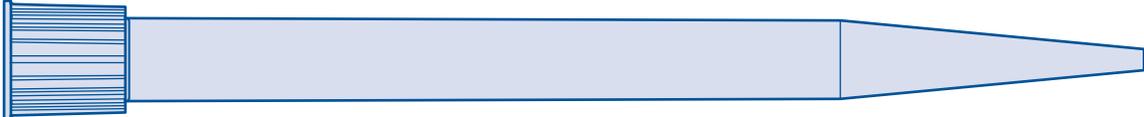
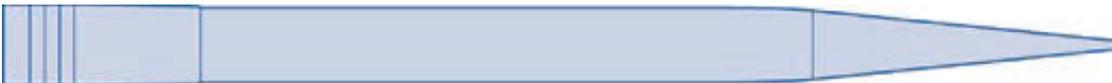
NOTE: All tips shown actual size.

Individually Wrapped Tips

Universal Pipette Tips, Individually-Wrapped				
	Pack Type	Sterile	Pack Size	Cat. No
 <p>200 µl Tip, Individually Wrapped, Yellow</p>	Bag	Yes	500	I1011-0016
 <p>100-1000 µl Tip, Individually Wrapped, Blue</p>	Bag	Yes	500	I1011-2011

NOTE: All tips shown actual size.

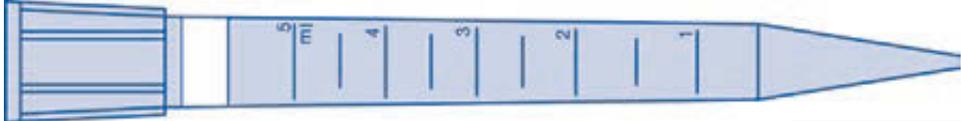
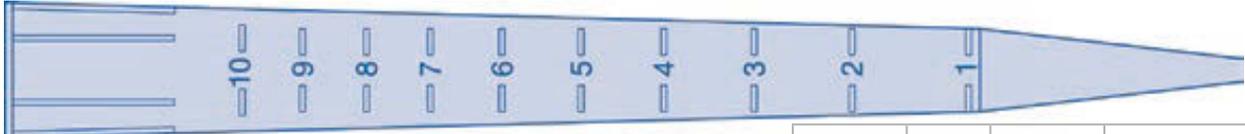
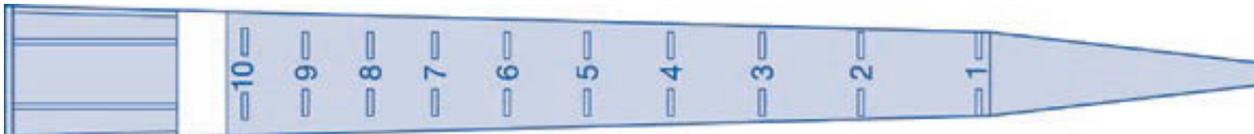
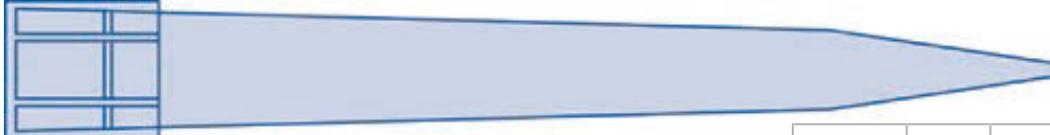
Large Volume Tips

Large Volume Tips				
All Tips are certified and natural in colour	Pack Type	Sterile	Pack Size	Cat. No
 5000 µl Biohit-Style Tip For use with: Biohit®, Eppendorf®, Genex®	Bag	No	250	E1009-7000
 5000 µl Biohit-Style XL Tip For use with: Biohit®, Eppendorf®, Genex®	Bag	No	250	E1009-7001
 5000 µl Eppendorf-Style Graduated Macro Tip For use with: Eppendorf®, Biohit®, Socorex®	Bag	No	250	I1053-0000
	50-Tip Rack	No	10 x 50	I1053-0700
	50-Tip Rack	Yes	10 x 50	I1053-0710
 5000 µl Eppendorf-Style Graduated Filter Macro Tip For use with: Eppendorf®, Biohit®	50-Tip Rack	Yes	10 x 50	I1053-0718
	50-Tip Rack	Yes	2 x 50	I1053-0728
 5000 µl Finn-Style Tip For use with: ErgoOne® E, Brand®, Finnpipette®, Socorex®, SMI®	Bag	No	250	I1009-5000

NOTES: All tips shown actual size.



Large Volume Tips

All Tips are certified and natural in colour (unless stated otherwise)		Pack Type	Sterile	Pack Size	Cat. No
 <p>5000 µl Gilson-Style Graduated Macro Tip For use with: ErgoOne®, Gilson®, Nichiryo®, Rainin®, StarPet, Volac®</p>	Bag	No	250	11050-0000	
	50-Tip Rack	No	10 x 50	11050-0700	
	50-Tip Rack	Yes	10 x 50	11050-0710	
 <p>5000 µl Gilson-Style Graduated Macro Filter Tip For use with: ErgoOne®, Gilson®, Nichiryo®, Rainin®, StarPet, Volac®</p>	50-Tip Rack	Yes	10 x 50	11050-0718	
	50-Tip Rack	Yes	2 x 50	11050-0728	
 <p>10 ml Gilson-Style Graduated Macro Tip For use with: Gilson®, Eppendorf®, Rainin®, StarPet</p>	Bag	No	200	11054-0000	
	25-Tip Rack	No	10 x 25	11054-0001	
	25-Tip Rack	Yes	10 x 25	11054-0011	
 <p>10 ml Gilson-Style Graduated Macro Filter Tip For use with: Gilson®, Eppendorf®, Rainin®, StarPet</p>	25-Tip Rack	Yes	2 x 25	11054-0028	
	 <p>10 ml Finn/Socorex-Style Blue Tip For use with: Accumax, Biohit®, Finnpiquette®, Socorex®</p>	Bag	No	200	11052-0000
	25-Tip Rack	No	10 x 25	11052-0001	
	25-Tip Rack	Yes	10 x 25	11052-0010	

NOTES: All tips shown actual size.



Wide Orifice Tips

Wide Orifice Tips				
All Tips are certified and natural in colour	Pack Type	Sterile	Pack Size	Cat. No
 <p>200 µl Tip / Wide Orifice For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpipette®, MLA®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®</p>	Bag	No	1000	I1011-8000
 <p>200 µl Graduated Tip / Wide Orifice For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpipette®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®</p>	Bag	No	1000	E1011-8000
	96-Tip Rack	No	10 x 96	E1011-8400
	96-Tip Rack	Yes	10 x 96	E1011-8410
 <p>1000 µl Tip / Wide Orifice For use with: ErgoOne®, Gilson®, Costar®, Eppendorf®, Finnpipette®, Nichiryo®, Oxford-Benchmate®, Rainin®, SMI®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	No	1000	E1011-9000

NOTE: All tips shown actual size.

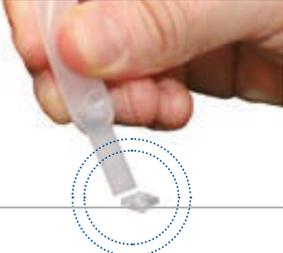
TipOne® RPT

Are you working with 'sticky' liquids? Then try STARLAB's TipOne® RPT tips. The optimised conventional polypropylene surfaces improves the flow of 'sticky' liquids. For more information see pages 24–25.



FREE SAMPLE
TRY
before you
BUY
available on request

Gel Extraction Tool

Gel Extraction Tool		
	Perform DNA sample extractions with great accuracy and precision in a rapid, four-step process. The disposable polyethylene tool cleanly cuts and picks up uniform slices of gel, eliminating possible cross-contamination from razor blades and other gel-cutting methods.	
	Description	Pack Size
X-Tracta™ Gel Extraction Tool	100	N2000-0100

 www.starlab.click/specialitytips

Gel-Loading Tips

Round Gel-Loading Tips					
All tips are certified and natural in colour	Pack Type	Sterile	Pack Size	Cat. No	
 10 µl Round Gel-Loading Tip For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, StarPet	204-Tip Rack	No	5 x 204	I1010-3600	
	204-Tip Rack	Yes	5 x 204	I1010-3610	
 10 µl Round Gel-Loading Filter Tip For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, StarPet	204-Tip Rack	Yes	5 x 204	I1010-3800	
 10 µl Round Gel-Loading Tip For use with: ErgoOne®, Eppendorf®, Gilson®, Nichiryo®, Oxford-Benchmate®, Socorex®, StarPet	204-Tip Rack	No	8 x 204	I1012-3600	
	204-Tip Rack	Yes	8 x 204	I1012-3610	
 20 µl Round Gel-Loading Filter Tip For use with: ErgoOne®, Gilson®, Costar®, Eppendorf®, MLA®, Socorex®, Volac®	204-Tip Rack	Yes	5 x 204	E1021-0618	
 100 µl Round Gel-Loading Filter Tip For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiquette®, Nichiryo®, Oxford-Benchmate®, Socorex®, StarPet, Titertek®, Volac®	Bag	No	1000	E1022-0008	
	204-Tip Rack	Yes	5 x 204	I1022-0810	
 200 µl Round Gel-Loading Tip For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Finnpiquette®, MLA®, Nichiryo®, Oxford-Benchmate®, Rainin®, StarPet®, Socorex®, Titertek®, Volac®	Bag	No	1000	I1022-0000	
	204-Tip Rack	No	5 x 204	I1022-0600	
	204-Tip Rack	Yes	5 x 204	I1022-0610	

NOTE: All tips shown actual size.

Flat Gel-Loading Tips					
All tips are certified and natural in colour	Pack Type	Sterile	Tip Thickness	Pack Size	Cat. No.
 10 µl Flat Gel-Loading Tip For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, StarPet	200-Tip Rack	No	0.20 mm	1 x 200	I1012-2600
	200-Tip Rack	No	0.40 mm	1 x 200	I1012-4600
 10 µl Flat Gel-Loading Tip For use with: ErgoOne®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, Socorex®, StarPet	200-Tip Rack	No	0.20 mm	1 x 200	I1011-2600
	200-Tip Rack	No	0.40 mm	1 x 200	I1011-4600
 200 µl Flat Gel-Loading Tip For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiquette®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, Titertek®	200-Tip Rack	No	0.20 mm	1 x 200	I1022-2600
	200-Tip Rack	No	0.40 mm	1 x 200	I1022-4600

NOTE: All tips shown actual size.

TipOne® Repeat Dispenser Tips

You want more freedom?

No problem! Our new TipOne® Repeat Dispenser Tips are available in an extra volume of 0.1 ml!

Additionally our new TipOne® Repeat Dispenser Tips fit more dispenser models than before. This new range is still made from the same high-quality materials, but now has the following features:

What's new?

- ▶ Tip volume recognition with Multipette® Plus*
- ▶ Now available in eight volumes – new 0.1 ml tip!
- ▶ Up to 100 dispenser steps with Multipette® Plus
- ▶ Separate adapters for 25 ml and 50 ml tips, easily distinguishable by colour
- ▶ Extended piston length of most tips minimises dead air volume, improves reagent delivery and provides easier access to narrow vessels
- ▶ Lower dispensing forces

Features

- ▶ Available non-sterile bulk, or sterile individually wrapped
- ▶ High accuracy and precision
- ▶ ISO 8655 manufactured
- ▶ Polypropylene cylinder
- ▶ Polyethylene piston



Compatible with:

- ▶ STARLAB: RepeatOne® (see page 58)
- ▶ Brand: HandyStep® Manual, HandyStep® S, HandyStep® electronic
- ▶ Denville: Faststepper®
- ▶ Eppendorf: Multipette® 4780, Multipette® Plus*, Multipette® stream/Xstream**
- ▶ Gilson: Pipetman®, Distriman®, Repetman®
- ▶ Rainin: AutoRep® E, AutoRep® S, AutoRep® M
- ▶ Ritter: Ripette®, Ripette® pro, Ripette® genX
- ▶ Sartorius: Biohit® Mechanical Stepper, Biohit® eLine® Pro, Biohit® eLine® Lite
- ▶ Scilogex: Stepmate®
- ▶ Thermo Fisher: Fisherbrand® Repeat Stepper, FinnpiPETTE® Stepper

* Tip recognition works only with old sensor (prior to service).

** For use with models manufactured prior to Dec 2013 only.

Repeat Dispenser

- ▶ See page 58 for ordering details of STARLAB's RepeatOne® Dispenser



TipOne Repeat



Application Guide

Dispenser Tip Volume	Dispenser Adjustment				
	1	2	3	4	5
0.1 ml	2 µl	4 µl	6 µl	8 µl	10 µl
0.5 ml	10 µl	20 µl	30 µl	40 µl	50 µl
1.0 ml	20 µl	40 µl	60 µl	80 µl	100 µl
2.5 ml	50 µl	100 µl	150 µl	200 µl	250 µl
5.0 ml	100 µl	200 µl	300 µl	400 µl	500 µl
10 ml	200 µl	400 µl	600 µl	800 µl	1000 µl
25 ml	500 µl	1.000 µl	1.500 µl	2.000 µl	2.500 µl
50 ml	1.000 µl	2.000 µl	3.000 µl	4.000 µl	5.000 µl
Steps*	48	23	15	11	8

*Number of steps may vary according to dispenser manufacturer.

Dispenser Tips

Description	Pack Size	Cat. No.
Non-Sterile		
0.1 ml TipOne® Repeat Dispenser Tips	100	S4751-0010
0.5 ml TipOne® Repeat Dispenser Tips	100	S4751-0050
1.0 ml TipOne® Repeat Dispenser Tips	100	S4751-0100
2.5 ml TipOne® Repeat Dispenser Tips	100	S4751-0250
5.0 ml TipOne® Repeat Dispenser Tips	100	S4751-0500
10 ml TipOne® Repeat Dispenser Tips	100	S4751-1000
25 ml TipOne® Repeat Dispenser Tips*	100	S4751-2500
50 ml TipOne® Repeat Dispenser Tips*	100	S4751-5000
Adapter for 25 ml Dispenser Tips	1	S4756-2500
Adapter for 50 ml Dispenser Tips	1	S4756-5000
Sterile, Individually Wrapped		
0.1 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-0010
0.5 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-0050
1.0 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-0100
2.5 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-0250
5.0 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-0500
10 ml TipOne® Repeat Dispenser Tips (Sterile)	100	S4761-1000
25 ml TipOne® Repeat Dispenser Tips (Sterile)*	100	S4761-2500
50 ml TipOne® Repeat Dispenser Tips (Sterile)*	100	S4761-5000
Adapter (Sterile) for 25 ml Dispenser Tips	7	S4765-2500
Adapter (Sterile) for 50 ml Dispenser Tips	7	S4765-5000

* 25ml and 50ml tips are supplied with four adapters.

Note: TipOne® Repeat Dispenser Tips are not autoclavable.



www.starlab.click/dispensertips

Robotic Tips

Perfect fit and precision!

STARLAB's robotic tips offer the same perfect fit and precision as the original manufacturer's tips.



OVERVIEW36

TIPS FOR BECKMAN COULTER®

Biomek® 1000 & 2000.....	37
Biomek® 3000	38–39
Biomek® FX & NX	38–39
Multimek®.....	38–39

TIPS FOR PACKARD®

MultiProbe® II	40
MultiProbe® IIHT/EX	40

TIPS FOR PERKIN ELMER®

Janus®.....	41
Evolution® P ³ , MiniTrak™ & PlateTrak™	41

TIPS FOR QIAGEN®

QIAgility® (formerly Corbett CAS-1200).....	41
---	----

TIPS FOR TECAN®

Freedom EVO®.....	42
Genesis & MiniPrep	42

TIP-ROBOT COMPATIBILITY43

ROBOTIC RESERVOIRS44

Overview



STARLAB robotic tips are engineered to the same specifications as the original, equipment manufacturer's tips to ensure compatibility and a consistent fit. Do not risk having your time and results compromised with defective materials and poor performance! With STARLAB, you can put your trust in disposables from a company that offers much more than just tips.

All robotic tips are certified RNase, DNase and DNA free.

Quality Control

Quality Control is the essential factor which gives you the freedom to walk away from your automated workstation and get on with other tasks. You need the assurance that the tip will not let you down.

STARLAB robotic tips are put through stringent and thorough testing. Every lot of tips is subject to an array of demanding tests, from the geometry of the tip itself to automation-specific requirements such as clean ejection from the liquid handling head. Every lot is required to meet or exceed the parameters necessary to give you that confidence to walk away.

Tips are tested on the original robotic equipment so there is no doubt they will perform to the same requirements as the disposables from the robot manufacturer themselves.



No Special Set-Up Required!

STARLAB robotic tips require no instrument hardware or software adjustment, thereby providing a simple, safe and direct high-performance substitute.



Recycle your Robotic Tip Racks

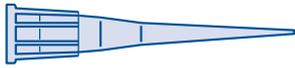
Robotic tips racks are made from polypropylene and can be recycled using the same method you use for our TipOne racks.

See page 26 for more information on the recycling topic.

Tips for Beckman Coulter®

Biomek® 1000 • Biomek® 2000



	Rack Style/ Head	Non-Sterile	Sterile
		10 Racks per Pack*	10 Racks per Pack*
 20 µl Tip	Grey SBS Rack P20, MP20, P200, MP200	I 1060-2400	I 1060-2410
 50 µl Tip	Orange SBS Rack P20, MP20, P200, MP200	n/a	I 1060-5410
 250 µl Tip	Black SBS Rack P200, MP200	I 1062-0400	I 1062-0410
 1000 µl Tip	Black Non-SBS Rack P1000	10 x 72-Tip Racks E1075-3700	10 x 72-Tip Racks E1075-3710

NOTES: All tips shown actual size.

n/a = not available. All pack sizes 10 x 96-Tip Racks, unless stated otherwise.

*Unless stated otherwise.

Tips for Beckman Coulter®

Biomek® FX • Biomek® NX • Biomek® 3000 • Multimek®

No programming or software changes required!

- ▶ Engineered to the same specifications as the original manufacturer's tip to ensure compatibility and a consistent fit
- ▶ You can recycle the empty racks with your other plastic recycling (see page 26)
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free

	Rack Style / Head	Non-Sterile	Sterile
 20 µl Tip	Pale Blue SBS Rack AP96, SPAN-8, MP20	10 Racks per Pack E1076-4400	10 Racks per Pack E1076-4410
 20 µl Filter Tip	Pale Blue SBS Rack AP96, SPAN-8, MP20	n/a	E1076-4418
 50 µl Tip	Orange SBS Rack AP96, SPAN-8, MP20, MP200	E1076-2400	E1076-2410
 50 µl Filter Tip	Orange SBS Rack AP96, SPAN-8, MP20, MP200	n/a	E1076-2418
 250 µl Tip	Green SBS Rack AP96, SPAN-8, MP200	E1076-0400	E1076-0410
 175 µl Filter Tip	Green SBS Rack AP96, SPAN-8, MP200	n/a	E1076-0418

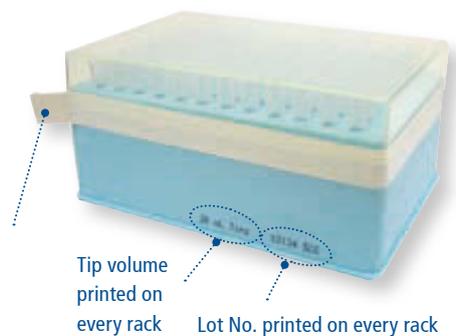
96-well tips also compatible with Gilson® Cyberlab®.

AP96 & SPAN-8 compatible

No special set-up required!

Engineered to the exact specifications as original manufacturer's tip

New, easy-release tape opening on sterile product



 www.starlab.click/robotictips

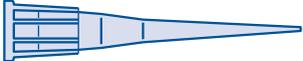
Economical, eco-friendly and space saving refill system!

- ▶ Refillable racks and space-saving refill stacks
- ▶ Refills take up **40% less space!**
- ▶ Quick and easy racking with easy-locate tabs on each refill
- ▶ Reusable racks means less waste and less cost
- ▶ You can recycle the used refills with your other plastic recycling (see page 26)
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free



Refillable racks

Get yourself started by first buying the refillable racks.

Refillable Racks	Rack Style / Head	Non-Sterile	Sterile
		10 Pre-Filled Refillable Racks	10 Pre-Filled Refillable Racks
 20 µl Tip	Pale Blue Refillable Rack AP96, SPAN-8	E1076-4800	n/a
 250 µl Tip	Green Refillable Rack AP96, SPAN-8	E1076-0800	n/a

Refills

Once you have used the tips from the refillable racks above, refill the racks to save both money and plastic waste!

Refills	Rack Style / Head	Non-Sterile	Sterile
		2 Stacks of 5 Refills	2 Stacks of 5 Refills
 20 µl Tip	Pale Blue Refill AP96, SPAN-8	E1076-4700	n/a
 250 µl Tip	Green Refill AP96, SPAN-8	E1076-0700	n/a



The **refill** is easy to use
– just press in the tabs on the side
to insert or remove wafers

Tips for Packard®

MultiProbe® II • MultiProbe® IIHT/EX



	Rack Style / Head	Non-Sterile	Sterile
 10 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	24 Racks per Pack* R1181-3700	24 Racks per Pack* R1081-3700
 10 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-3810	R1028-3810
 50 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-5700	R1081-5700
 50 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-5810	R1028-5810
 200 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-0700	R1081-0700
 200 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-0810	R1028-0810
 1000 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-2700	R1081-2700
 1000 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-2810	R1028-2810
 10 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-3709	R1081-3709
 10 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-3819	R1028-3819
 50 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-5709	R1081-5709
 50 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-5819	R1028-5819
 200 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-0709	R1081-0709
 200 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-0819	R1028-0819
 1000 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-2709	R1081-2709
 1000 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-2819	R1028-2819

Also compatible with: Aurora Biomed® Versa™ systems with 8-channel head, Qiagen® QIAgility® (CAS-1200) with single-channel head

* Racks supplied in individual blister packs.

Tips for Perkin Elmer®

Janus® • Evolution® P³ • MiniTrak™ • PlateTrak™

	Rack Style / Head	Non-Sterile	Sterile
 20 µl Tip	Green SBS Rack MDT-96 P50	10 Racks per Pack E1078-2400	10 Racks per Pack n/a
 50 µl Tip	Green SBS Rack MDT-96 P50	10 Racks per Pack E1078-5400	10 Racks per Pack n/a

Tips for Perkin Elmer
/ Qiagen®

Tips for Qiagen®

QIAgility® (formerly CAS-1200)

	Rack Style / Head	Non-Sterile	Sterile
 50 µl Conductive Filter Tip	Clear Hanging Rack Single-Channel Pipette	n/a	10 Racks per Pack E1172-1418
 200 µl Conductive Filter Tip	Clear Hanging Rack Single-Channel Pipette	n/a	10 Racks per Pack E1173-2418

Tips for Tecan® (with LiHa)

Freedom EVO® • Genesis • MiniPrep



	Rack Style / Head	Non-Sterile	Sterile
Tips for research purposes only			
 10 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-3700	R1081-3700
 10 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-3810	R1028-3810
 50 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-5700	R1081-5700
 50 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-5810	R1028-5810
 200 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-0700	R1081-0700
 200 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-0810	R1028-0810
 1000 µl Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-2700	R1081-2700
 1000 µl Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-2810	R1028-2810
 10 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-3709	R1081-3709
 10 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-3819	R1028-3819
 50 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-5709	R1081-5709
 50 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-5819	R1028-5819
 200 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-0709	R1081-0709
 200 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-0819	R1028-0819
 1000 µl Conductive Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1181-2709	R1081-2709
 1000 µl Conductive Filter Tip	White Hanging Rack Varispan with 4 or 8 head probe	R1128-2819	R1028-2819

Also compatible with: Aurora Biomed® Versa™ systems with 8-channel head, Qiagen® QIAgility® (CAS-1200) with single-channel head.

* Pack sizes only available in this range. Racks supplied in individual blister packs..

Tip-Robot Compatibility

	GO TO:	Page 37	Page 38	Page 39	Page 40	Page 41	Page 42
Aurora Biomed® Versa™: 8-Channel					✓		✓
Beckman® Biomek® 1000/2000: P20, MP20, P200, MP200, P1000		✓					
Beckman® Biomek® 3000: AP96, MP20, MP200			✓	✓			
Beckman® Biomek® FX: AP96, MP20, MP200			✓	✓			
Beckman® Biomek® FX: SPAN-8			✓	✓			
Beckman® Biomek® NX: AP96, MP20, MP200			✓	✓			
Beckman® Biomek® NX: SPAN-8			✓	✓			
Beckman® Multimek®: AP96, MP20, MP200			✓	✓			
Corbett® CAS-1200: Single-Channel Head					✓	✓	✓
Gilson® Cyberlab®			✓				
Packard® Multiprobe® II: Varispan 4 or 8 head probe					✓		
Packard® Multiprobe® IIHT/EX: Varispan 4 or 8 head probe					✓		
Perkin Elmer® Evolution® P3: MDT-96 P50						✓	
Perkin Elmer® Janus®: MDT-96 P50						✓	
Perkin Elmer® MiniTrak™: MDT-96 P50						✓	
Perkin Elmer® PlateTrak™: MDT-96 P50						✓	
Qiagen® QiAgility®: Single-Channel Pipette					✓	✓	✓
Tecan® Freedom EVO®: LiHa-1, -4 & -8							✓
Tecan® Genesis: LiHa-1, -4 & -8							✓
Tecan® MiniPrep: LiHa-1, -4 & -8							✓

This chart is intended as a guide only. Please check the relevant page to ensure a specific tip's compatibility with your robotic system and the head type. Contact us for a free sample rack of tips to ensure compatibility with your robotic system.



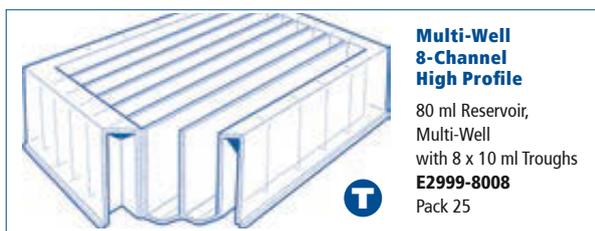
Robotic Reservoirs



High quality for high throughput!

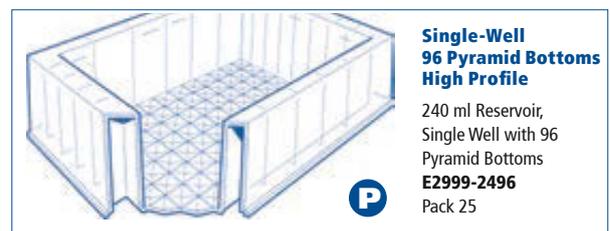
STARLAB reservoirs conform to the standard SBS footprint for compatibility with most robotic systems. They have virtually no dead volume and are available in two heights and two well styles. The sturdy polypropylene construction ensures rigidity during automation and excellent chemical resistance.

All robotic reservoirs are certified RNase, DNase and Pyrogen free



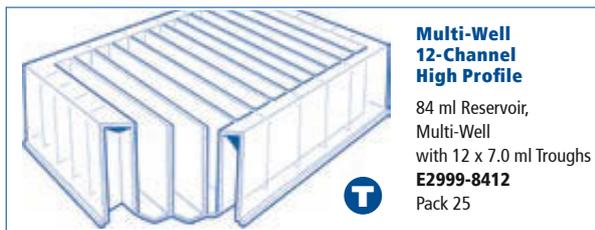
Multi-Well 8-Channel High Profile

80 ml Reservoir,
Multi-Well
with 8 x 10 ml Troughs
E2999-8008
Pack 25



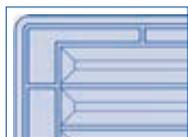
Single-Well 96 Pyramid Bottoms High Profile

240 ml Reservoir,
Single Well with 96
Pyramid Bottoms
E2999-2496
Pack 25



Multi-Well 12-Channel High Profile

84 ml Reservoir,
Multi-Well
with 12 x 7.0 ml Troughs
E2999-8412
Pack 25



T TROUGH

Troughs extend the length/width of reservoir, ideal for 8/12 channel applications



P PYRAMID

Pyramid-shaped collection pools to help minimise dead volume



www.starlab.click/roboticreservoirs

Pipettes

Ergonomic!

Our award-winning pipettes combine user-friendly features with ergonomic benefits for precise performance, every day.



MANUAL PIPETTES

ErgoOne® Pipettes: Overview	48–49
ErgoOne® Single-Channel Pipettes	50
ErgoOne® Multi-Channel Pipettes.....	51

ELECTRONIC PIPETTES

ErgoOne® E Electronic Pipettes	52–53
--------------------------------------	-------

PIPETTE CONTROLLERS

ErgoOne® FAST (Electronic)	54–55
StarPet Filler (Manual)	55

PIPETTE STANDS.....	56
---------------------	----

SEROLOGICAL PIPETTES

Polystyrene Pipettes.....	57
---------------------------	----

REPEAT DISPENSER

RepeatOne® Dispenser.....	58
---------------------------	----

ErgoOne® Pipettes: Overview

Setting the new standard in pipetting

Everyday, pipettes are confronted with multiple tasks that must be exact and precise. Reliability is key in the laboratory and your pipette must be trusted to perform well, day in, day out.

As one of the most frequently used instruments in the laboratory, pipettes must also be comfortable to use and provide the features you need. ErgoOne® pipettes combine researcher-requested features with the latest ergonomic principles to provide optimum performance.

ErgoOne® gives you accuracy and precision you can trust, with a stylish look you will love.

Lightweight and extremely easy to use, ErgoOne® can be trusted to provide accurate and precise pipetting all day, every day. Use with STARLAB's TipOne® pipette tips for the perfect pipetting partnership.

ErgoOne® is designed to fit all popular pipette tips without any loss of accuracy and precision.

Product features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Universal tip fit
- ▶ Colour coded
- ▶ Volume lock
- ▶ Fully autoclavable
- ▶ UV-resistant
- ▶ Low maintenance
- ▶ Made in Germany
- ▶ 3-year warranty

Easily removable lower part for fast cleaning

Wear-resistant polymer tip holders

Tip ejector
with integrated cascade to lower the tip ejection force



www.starlab.click/manualpipettes

Colour coding

Volume lock

Prevents drift during use

Ergonomically designed

Finger rest ensures comfort and ease during use.



Smooth action tip ejector

Contoured chemically-resistant PP handle



Lightweight

Volume display

Positioned so it is visible during pipetting

Fully autoclavable

Can also be UV sterilised

4-digit volume display for greater accuracy

Three-year warranty

Easily removable tip ejector for fast cleaning

CE*

Universal tip fit!

ErgoOne

Reduced diameter tip ejector

For easy access into small tubes

Integral, rust-free tip ejector

*The ErgoOne® is designed and constructed for low-contamination transfer of liquids, in particular for samples from the human body and for reagents within the scope of an in-vitro diagnostic application in order to allow the in-vitro diagnostic medical device to be used as intended. This pipette is an in vitro diagnostic device according to Directive 98/79/EC of the European Parliament and the Council dated 27 October 1998. It is intended exclusively for indoor use and for operation by qualified staff.

ErgoOne® Single-Channels

ErgoOne® Single-Channel Pipettes							Cat. No.
Volume Range (Colour Coding)	Increments	Volume µl	Systematic Error (Inaccuracy) ±%		Random Error (Imprecision) ±%		
			8655-2	ErgoOne®	8655-2	ErgoOne®	
Single-Channel							
0.1 –2.5 µl (Red)	0.002 µl	0.1	125	24	75	12	S7100-0125
		0.25	50	12	30	6.0	
		1.25	10	2.5	6.0	1.5	
		2.5	5.0	1.4	3.0	0.7	
0.5 –10 µl (Red)	0.01 µl	1.0	12	2.5	8.0	1.8	S7100-0510
		5	2.4	1.5	1.6	0.8	
		10	1.2	1.0	0.8	0.4	
2 –20 µl (Red)	0.02 µl	2	10	5.0	5.0	1.5	S7100-0221 (micro cone)
		10	2.0	1.2	1.0	0.6	
		20	1.0	1.0	0.5	0.3	
2 –20 µl (Yellow)	0.02 µl	2	10	5.0	5.0	1.5	S7100-0220 (standard cone)
		10	2.0	1.2	1.0	0.6	
		20	1.0	1.0	0.5	0.3	
10 –100 µl (Yellow)	0.1 µl	10	8.0	3.0	3.0	1.0	S7100-1100
		50	1.6	1.0	0.6	0.3	
		100	0.8	0.8	0.3	0.2	
20 –200 µl (Yellow)	0.2 µl	20	8.0	2.5	3.0	0.7	S7100-2200
		100	1.6	1.0	0.6	0.3	
		200	0.8	0.6	0.3	0.2	
100 –1000 µl (Blue)	1 µl	100	8.0	3.0	3.0	0.6	S7110-1000
		500	1.6	1.0	0.6	0.2	
		1000	0.8	0.6	0.3	0.2	
500 –5000 µl (Violet)	5 µl	500	8.0	2.4	3.0	0.6	S7150-5000
		2500	1.6	1.2	0.6	0.25	
		5000	0.8	0.6	0.3	0.15	

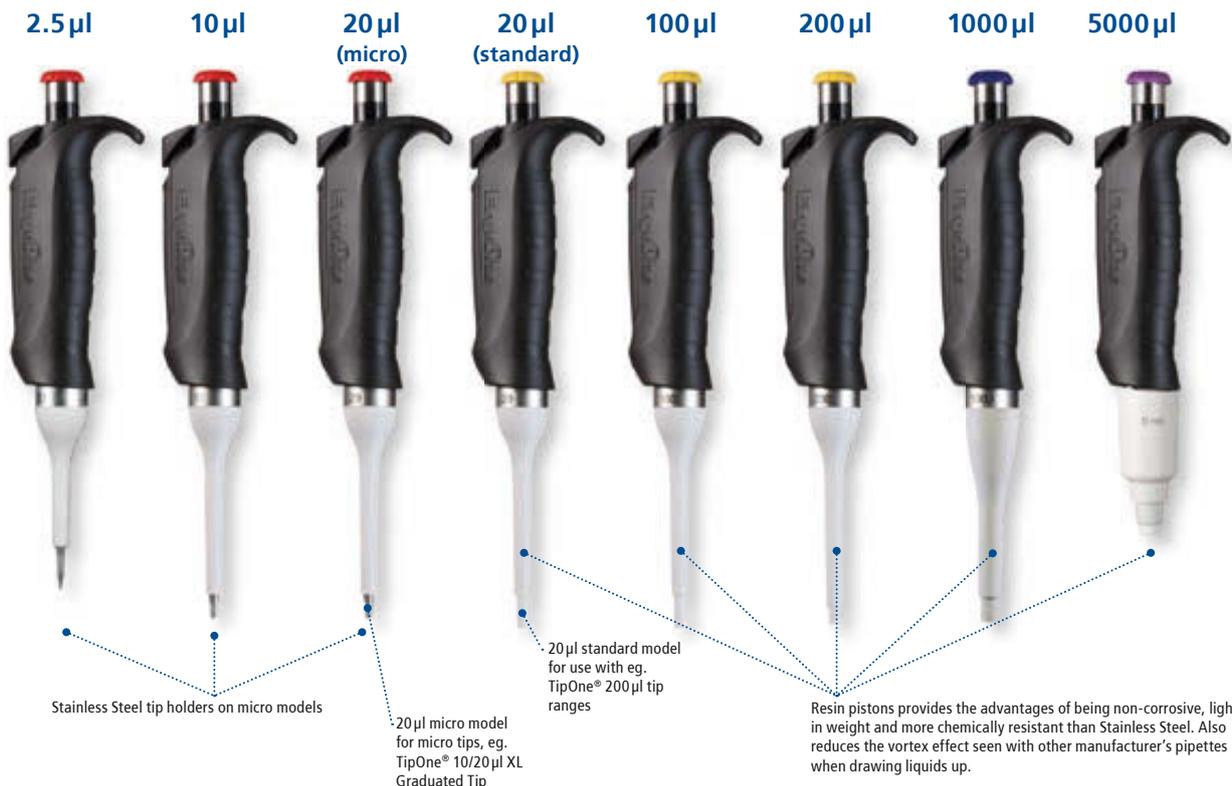
Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips.

Setting the new standard in pipetting!

The ErgoOne® single-channel pipette range consists of eight models covering the volume range 0.1 µl to 5 ml.

Product features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Colour coded
- ▶ Volume lock
- ▶ Fully autoclavable
- ▶ UV-resistant
- ▶ Low maintenance
- ▶ Made in Germany
- ▶ 3-year warranty



ErgoOne® Multi-Channels

Volume Range (Colour Coding)	Increments	Volume µl	Systematic Error (Inaccuracy) ±%		Random Error (Imprecision) ±%		Cat. No.
			8655-2	ErgoOne®	8655-2	ErgoOne®	
8-Channel Pipettes							
0.5 –10 µl (Red)	0.01 µl	1.0	24	8.0	16	5.0	S7108-0510
		5.0	4.8	4.0	3.2	2.0	
		10	2.4	2.0	1.6	1.0	
10 –100 µl (Yellow)	0.1 µl	10	16	3.0	6.0	2.0	S7108-1100
		50	3.2	1.0	1.2	0.8	
		100	1.6	0.8	0.6	0.3	
30 –300 µl (Green)	0.2 µl	30	26.7	3.0	10	1.0	S7108-3300
		150	5.3	1.0	2.0	0.5	
		300	2.7	0.6	1.0	0.3	
12-Channel Pipettes							
0.5 –10 µl (Red)	0.01 µl	1.0	24	8.0	16	5.0	S7112-0510
		5.0	4.8	4.0	3.2	2.0	
		10	2.4	2.0	1.6	1.0	
10 –100 µl (Yellow)	0.1 µl	10	16	3.0	6.0	2.0	S7112-1100
		50	3.2	1.0	1.2	0.8	
		100	1.6	0.8	0.6	0.3	
30 –300 µl (Green)	0.2 µl	30	26.7	3.0	10	1.0	S7112-3300
		150	5.3	1.0	2.0	0.5	
		300	2.7	0.6	1.0	0.3	

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips.

A great tool to speed up your pipetting process

ErgoOne® multi-channel pipettes are designed in accordance with the latest ergonomic principles. The pipette is extremely easy to use and has minimal operating forces to help prevent hand fatigue. ErgoOne® multi-channel pipettes provide accurate and precise pipetting in a variety of volume ranges.

Product features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Colour coded
- ▶ Volume lock
- ▶ Fully autoclavable
- ▶ UV-resistant
- ▶ Low maintenance
- ▶ Made in Germany
- ▶ 3-year warranty



DEMO MODELS
TRY
before you
BUY
available on request



Pipette Stands for ErgoOne® Pipettes are on page 56

 www.starlab.click/multi-channelpipettes

ErgoOne® E Electronic Pipettes

Reliable and ergonomic!

ErgoOne® E single and multi-channel pipettes provide reliable pipetting every day. Ergonomic and lightweight, ErgoOne® E pipettes are perfect for comfortable pipetting during long periods of use.

Five operating modes provide standard and reverse pipetting, mixing and dispensing, plus a unique “Electrophoresis” mode to help you load gels easily. The long lasting battery can also be charged during use so you are never without your pipette.

ErgoOne® E

Product features

- ▶ Reliable
- ▶ Lightweight, ergonomic design
- ▶ Adjustable finger rest for individual comfort
- ▶ Universal tip fit
- ▶ Significantly reduced tip loading and ejection forces
- ▶ Easy to use, intuitive menu structure
- ▶ Five operating modes (Pipetting, Reverse Pipetting, Mixing, Multi Dispense, Electrophoresis)
- ▶ Autoclavable pipette shaft
- ▶ Long lasting battery (~4000 pipetting cycles with one battery charge)
- ▶ Battery refresh function extends service life and optimises battery performance
- ▶ Can be charged during use
- ▶ 12-month warranty

CE*



Ergonomic, easy to reach pipetting button

Colour-coded ejector button
provides significantly reduced ejection forces

Adjustable finger rest
ErgoOne® E pipettes rest easily and ergonomically in your hand. The finger rest is height adjustable to allow the fine-tuning of the hand position for effortless operation of the function buttons

Comfortable, ergonomic hand grip

Autoclavable pipette shaft

Significantly reduced tip loading forces

Universal tip fit



*The ErgoOne® E is designed and constructed for low-contamination transfer of liquids, in particular for samples from the human body and for reagents within the scope of an in-vitro diagnostic application in order to allow the in-vitro diagnostic medical device to be used as intended. This pipette is an in-vitro diagnostic device according to Directive 98/79/EC of the European Parliament and the Council, dated 27 October 1998. It is intended exclusively for indoor use and for operation by qualified staff.

ErgoOne® E Electronic Pipettes

Volume Range	Increments	Systematic Error (Inaccuracy) ±%	Random Error (Imprecision) ±%	Cat. No.
Single-Channel Pipettes				
0.5–10 µl (red)	0.01 µl	5.0/1.5/1.0	2.0/0.8/0.4	G9001-0010
2.0–20 µl (red)	0.02 µl	5.0/1.5/1.0	2.5/0.8/0.4	G9001-0020
10–200 µl (yellow)	0.2 µl	4.0/1.2/0.8	0.6/0.3/0.2	G9001-0200
50–1000 µl (blue)	1.0 µl	3.0/1.0/0.6	0.6/0.3/0.2	G9001-1000
250 µl–5 ml (violet)	5.0 µl	3.0/1.0/0.6	0.6/0.3/0.2	G9001-5000
8-Channel Pipettes				
0.5–10 µl (red)	0.01 µl	8.0/2.0/1.2	4.0 to 0.8	G9008-0010
1–20 µl (red)	0.02 µl	8.0/2.0/1.0	3.0 to 0.5	G9008-0020
5–100 µl (yellow)	0.1 µl	4.0/1.6/0.8	1.5 to 0.25	G9008-0100
15–300 µl (green)	0.5 µl	3.0/1.2/0.6	1.2 to 0.25	G9008-0300
12-Channel Pipettes				
0.5–10 µl (red)	0.01 µl	8.0/2.0/1.2	4.0 to 0.8	G9012-0010
1–20 µl (red)	0.02 µl	8.0/2.0/1.0	3.0 to 0.5	G9012-0020
5–100 µl (yellow)	0.1 µl	4.0/1.6/0.8	1.5 to 0.25	G9012-0100
15–300 µl (green)	0.5 µl	3.0/1.2/0.6	1.2 to 0.25	G9012-0300

Single-channels supplied with battery, AC Adapter and silicone oil. Multi-channels supplied with battery, AC Adapter, individual stand, a rack of TipOne® tips and silicone oil. Final test values related to nominal value which is printed on the device (= max. volume) and the indicated volume steps, according to DIN EN ISO 8655.

ErgoOne® E Accessories*

Description	Pack Size	Cat. No.
AC Adapter for Europe/UK (230V/50 Hz)	1	G9999-1000
Charging Stand with AC Adapter	1	G9999-1001
Individual Stand (for Single-Channel Pipettes, 10 µl to 1000 µl)	1	G9999-1002
Individual Stand (for 5000 µl Single-Channel Pipette)	1	G9999-1003
Individual Stand (for all Multi-Channel Pipettes)	1	G9999-1004
Replacement Battery	1	G9999-1005
Silicone Oil for Piston (for Single-Channel Pipettes, 10 µl to 1000 µl)	1	G9999-1006
Silicone Oil for Piston (for 5000 µl Single-Channel and all Multi-Channel Pipettes)	1	G9999-1007
Fluorstatic Grease for Guiding Axis (for Multi-Channel Pipettes)	1	G9999-1008

*Spare Parts are not shown. Please refer to the User Manual.



G9999-1001



G9999-1002



G9999-1004



Easy to read digital display

Large, digital volume display and easy to master intuitive menu structure makes the ErgoOne® E the researcher's choice for easy, everyday pipetting.



Long lasting battery

~4000 pipetting cycles on one charge! Special 'Battery Refresh Function' extends the service life and optimises battery performance. Auto shut-off after 10 minutes of inactivity helps save battery charge.



Can be recharged during use

You will never be without the use of your pipette – the ErgoOne® E can be recharged during use!

ErgoOne® FAST Pipette Controller



Pipette Controllers

Specifications	
Battery	Lithium Polymer Battery
Charging time	~3 h
Battery Life	~2000 x 25 ml dispensing cycles from a fully-charged battery
Permissible Ambient Temp.	5 °C to 40 °C, 10 % to 90 % Humidity
Atmospheric Pressure	79.5 – 106 kPa
Weight	160 g (with battery)
Materials	Housing: Polypropylene Membrane Filter PTFE Pipette Adapter: Silicone
Voltage	Input: 100 V –240 V AC±10% Output: 5V
Frequency	50 Hz – 60 Hz



Pressure-responsive speed controls

The aspirating and dispensing speeds are easily regulated by pressure-sensitive control buttons. Unlike other controllers, there is no need to select a separate speed setting, thus making the ErgoOne® FAST very flexible and practical to use.



Battery-life indicator

Battery status display uses a traffic light system for easy, visual identification.

Green: Fully charged

Yellow: Half charged

Red: Almost empty

Plus, the ErgoOne® FAST can be recharged during use anyway!



Modern battery technology

Completely charged, the ErgoOne® FAST battery can perform 2000 x 25ml dosing cycles. The new, Lithium-Polymer battery technology guarantees a constant pipetting speed that will not diminish as the battery charge declines. Additionally, the battery is easy to replace!

Efficient pipetting

During development of STARLAB's ErgoOne® FAST electronic pipette controller, a high pipetting speed was recognised as an important feature. The result is convincing! The ErgoOne® FAST can fill a 25 ml pipette in less than than four seconds!

Ergonomy meets modernity

Every aspect of the ErgoOne® FAST has been developed with ergonomics in mind. ErgoOne® FAST is one of the lightest pipette controllers on the market. It is designed for comfort and balances perfectly in the hand for long, fatigue-free pipetting.

FAST stands for

Flexible, **A**ccurate & **P**recise, **S**afe, **T**ransfer

Product features

- ▶ Intuitive, pressure-responsive speed control
- ▶ Provides fast pipetting with no dripping of liquids for maximum precision
- ▶ Low operating forces
- ▶ Lightweight and ergonomically designed for fatigue-free pipetting
- ▶ Long battery life from easy to replace battery
- ▶ Constant performance, that does not decline along with battery charge
- ▶ Can be recharged during use
- ▶ Easy, traffic light system battery charge indicator
- ▶ Use with all glass/plastic serological pipettes (1.0 –100 ml)
- ▶ Autoclavable aspiration cone, pipette adapter, filter and seal
- ▶ Supplied with a wall mount and replacement membrane filters
- ▶ 2-year warranty

ErgoOne[®] FAST

ErgoOne [®] FAST Pipette Controller		
Description	Pack Size	Cat. No.
ErgoOne [®] FAST Pipette Controller*	1	S7166-0010
Accessories		
Replacement/Additional Wall Mount	1	P7166-6402
Sticky Tape for Wall Mount	1	P7166-6701
0.2 µm Membrane Filter, PTFE (Sterile)	1	P7166-6605
0.45 µm Membrane Filter, PTFE (Sterile)	1	P7166-6800
Replacement Seal for Filter Adapter	5	P7166-6904
Replacement Pipette Adapter (Silicone)	5	P7166-6002
Replacement Aspiration Cone	1	P7166-6103
Replacement Lithium Polymer Battery, 3.7 V	1	P7166-6501
Replacement Power Supply, 100-240 V / 50-60 Hz	5	P7166-6109
ErgoOne [®] FAST Pipette Benchtop Support	1	P7166-6306

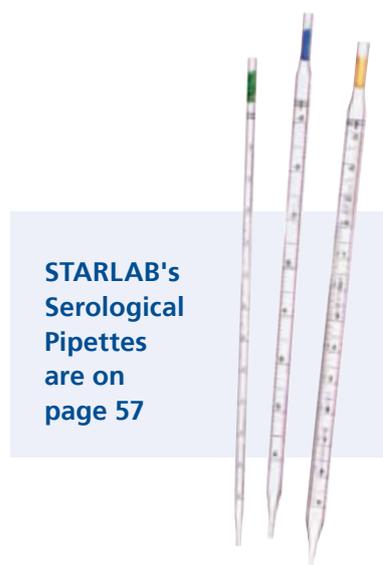
*ErgoOne[®] FAST is supplied with a battery, a power supply, 0.2 µl filter, 0.45 µl filter and a wall mount.



Pipette Controllers



P7166-6306
Benchtop Support



STARLAB's
Serological
Pipettes
are on
page 57



www.starlab.click/pipettecontroller

StarPet Filler (Manual)



Two dispense resolutions for maximum accuracy: one delivers fast filling with optimal accuracy for 10ml to 25ml pipettes; the other is for use with 1.0ml to 10ml pipettes where accuracy can sometimes be difficult to control. Compatible with Blow-Out, 'To Deliver' (TD) or gravity dispense pipettes

Product features

- ▶ Use with all plastic or glass pipettes, 1.0ml to 25ml
- ▶ Exceptionally smooth operation
- ▶ Autoclavable
- ▶ Replaceable silicone pipette holder

StarPet Filler (Manual)		
Description	Pack Size	Cat. No.
StarPet Filler (Manual)	1	E4866-2000
Silicon Pipette Holder	1	E4266-0040



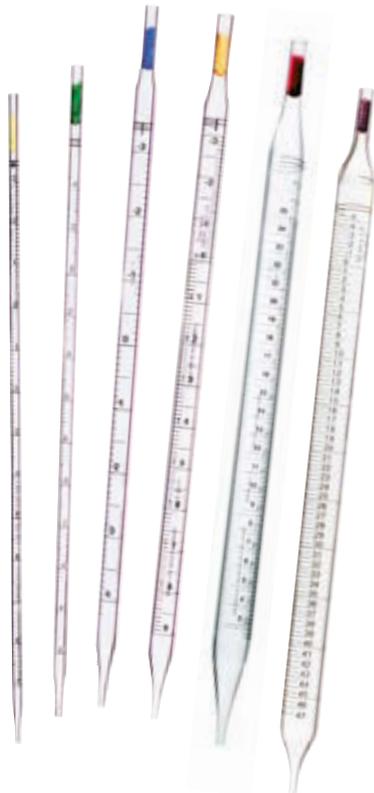
www.starlab.click/starpetfiller

Pipette Stands

Pipette Stands					
	Description	Cat. No.		Description	Cat. No.
	<p>ErgoOne® Universal Carousel Stand for up to 8 pipettes (UV Resistant)</p> <p><i>For use with:</i> ErgoOne®, Biohit®, Finn®, Gilson®, Rainin® single or multi-channel pipettes</p>	57200-0000		<p>Acrylic Universal Pipette Stand for up to 5 pipettes (UV Resistant)</p> <p><i>For use with:</i> ErgoOne®, Biohit®, Finn®, Eppendorf®, Gilson®, Rainin® single or multi-ch pipettes</p>	E3099-0000
	<p>Wall mount for ErgoOne®</p> <p><i>For use with:</i> ErgoOne®</p>	57200-0001		<p>ErgoOne® Self-Adhesive Shelf Holder for 1 pipette (UV Resistant)</p> <p><i>For use with:</i> ErgoOne® single or multi-channels</p>	E3099-0001
	<p>ErgoOne® Bench Support for 1 pipette</p> <p><i>For use with:</i> ErgoOne® single-channels</p>	E3099-0002		<p>Individual Stand for ErgoOne® E single-channel pipettes</p> <p><i>For use with:</i> ErgoOne® E single-channel pipettes</p>	For 10 µl to 100 µl pipettes G9999-1002
	<p>Charging Stand for ErgoOne® E - for up to 3 pipettes</p> <p><i>For use with:</i> ErgoOne® E single-channel pipettes</p>	G9999-1001		<p>Individual Stand for ErgoOne® E multi-channels pipettes</p> <p><i>For use with:</i> All volumes of ErgoOne® E multi-channel pipettes</p>	For 5000 µl pipettes G9999-1003
	<p>ErgoOne® FAST Bench Support for 1 pipette</p> <p><i>For use with:</i> ErgoOne® FAST pipette controller</p>	P7166-6306			G9999-1004

Pipettes / pipette controllers are not included. Images for illustrative purposes only.

Polystyrene Pipettes



Clearly a quality pipette!

Perfect for use with all popular pipette controllers, including STARLAB's own range (see pages 54-55), these serological pipettes are made from crystal polystyrene with a seamless construction to eliminate hangup and provide more accuracy.

Available sterile and individually-wrapped, these high quality pipettes feature colour coded plugs that conform to the international standard.

Serological Pipettes		
Description	Pack Size	Cat. No.
1.0 ml Serological Pipette, Yellow Filter (Sterile), Ind. Wrapped	500	E4860-0111
2.0 ml Serological Pipette, Green Filter (Sterile), Ind. Wrapped	500	E4860-0211
5.0 ml Serological Pipette, Blue Filter (Sterile), Ind. Wrapped	250	E4860-0511
10 ml Serological Pipette, Orange Filter (Sterile), Ind. Wrapped	200	E4860-1011
25 ml Serological Pipette, Red Filter (Sterile), Ind. Wrapped	100	E4860-2511
50 ml Serological Pipette, Red Filter (Sterile), Ind. Wrapped	100	E4860-5012

Specifications				
Pipette Volume	Plug Colour	Increments	Extra Graduations	Total Volume
1.0 ml	Yellow	0.01 ml	0.3 ml	1.3 ml
2.0 ml	Green	0.02 ml	0.4 ml	2.4 ml
5.0 ml	Blue	0.1 ml	3.0 ml	8.0 ml
10 ml	Orange	0.1 ml	3.0 ml	13.0 ml
25 ml	Red	0.2 ml	2.6 ml	27.6 ml
50 ml	Violet	0.5 ml	10.0 ml	60.0 ml

Product features

- ▶ Accuracy >98 %
- ▶ Sterile pipettes with colour-coded plugs for ease of selection
- ▶ Crisp, black, raised permanent graduations
- ▶ Ascending and descending graduations on pipettes 5 ml and over
- ▶ ISO 9001:2008 manufactured
- ▶ Certified RNase, DNase non-cytotoxic, non-haemolytic and pyrogen free

Colour-coded packaging

- ▶ Closable, Stackable, Space-Saving
- ▶ Colour coded
- ▶ Clearly visible bar codes
- ▶ Lot No. on every individual pipette



Traceable packs: Individually wrapped in fibre-free paper/plastic peel back packs, showing the Lot. No



RepeatOne® Dispenser

Rapid dispensing!

RepeatOne® is a hand-held device for repetitive and rapid dispensing of volumes 2.0 µl to 5.0 ml. Up to 48 pipettings of the same sample can be made without refilling, resulting in a considerable reduction in time and expense.

RepeatOne® allows the selection of five separate volumes from each TipOne® Repeat Dispenser Tip.

DEMO MODELS
TRY
before you
BUY
available on request



RepeatOne

Product features

- ▶ Up to 48 dispenses from the same sample
- ▶ Locking clamp holds the dispenser tip securely in place
- ▶ Conforms to EN ISO 8655 Piston-Operated Volumetric Apparatus
- ▶ Conforms to ASTM E1154-89 (2003) Standard Specification for Piston or Plunger Operated Volumetric Apparatus
- ▶ 2-year warranty

Compatibility

The RepeatOne® dispenser can be used with the following dispenser tips:

- ▶ STARLAB TipOne® Repeat Dispenser Tips, see page 32
- ▶ Brand®
- ▶ Gilson®
- ▶ HTL®
- ▶ Ritter®



RepeatOne® Dispenser		
Description	Pack Size	Cat. No.
RepeatOne® Dispenser	1	S4026-1500
Accessories		
25 ml Adapter for TipOne® Repeat Dispenser Tips (Non-Sterile)	1	S4756-2500
50 ml Adapter for TipOne® Repeat Dispenser Tips (Non-Sterile)	1	S4756-5000
25 ml Adapter for TipOne® Repeat Dispenser Tips (Sterile)	7	S4765-2500
50 ml Adapter for TipOne® Repeat Dispenser Tips (Sterile)	7	S4765-5000

Note: RepeatOne® Dispenser is not autoclavable.

Pipetting Volumes TipOne.2 Repeat																												
TipOne.2 Repeat	2 µl	4 µl	6 µl	8 µl	10 µl	20 µl	30 µl	40 µl	50 µl	60 µl	80 µl	100 µl	150 µl	200 µl	250 µl	300 µl	400 µl	500 µl	600 µl	800 µl	1.5 ml	2 ml	2.5 ml	3 ml	4 ml	5 ml		
0.1 ml	48	23	15	11	8																							
0.5 ml					48	23	15	11	8																			
1 ml						48		23	15	11	8																	
2.5 ml									48				23	15	11	8												
5.0 ml													48	23	15	11	8											
10 ml														48	23	15	11	8										
25 ml*																		48	23	15	11	8						
50 ml*																				48	23	15	11	8				

Dispenser Tips

See page 32 for ordering details of STARLAB's TipOne® Repeat Dispenser Tips.

Test conditions in accordance with EN ISO 8655	
Liquid	Water bi-distilled, degassed
Test Temperature	20–25 °C, ±0.5 °C constant (Data for TipOne® Repeat 0.5 ml, 1.25 ml and 2.5 ml are determined with attached 200 µl pipette tip)
Operating Temperature	+4 °C to +40 °C
Measurement	Performed with original TipOne® Repeat dispenser tips in accordance with EN ISO 8655

 www.starlab.click/repeatdispenser

Pipette Servicing

Total Liquid Handling!

The 360° approach – pipettes, tips, servicing and calibration.



trustworthy

competently

economical

Pipette Servicing

PIPETTE SERVICING

The STARLAB Concept.....62

SERVICE LEVELS

Servicing & Calibration63

ORDER FORM

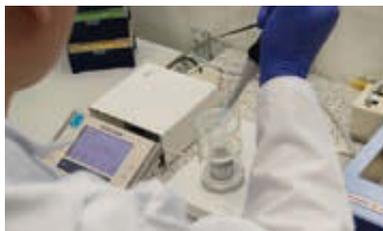
.....64

The STARLAB Concept



You can rely on our experienced professionals!

Our pipette servicing knowledge is backed up with many years expertise and experience in the manufacture and distribution of liquid handling products.



Following modification and reorganization of our servicing laboratory at the beginning of 2016, we are now equipped with a high quality air conditioning system and modern weighing equipment that provides a fast, highly competent and cost-effective calibration service.

We service all manufacturer's pipettes!

As well as manual and electronic single and multi-channel pipettes, we also service pipette controllers, repeat dispensers and bottle-top dispensers.

Competent "all-in service" from one source!

Our four-step servicing approach ensures accuracy for your pipettes and a maintenance program to prolong the life of your pipettes.

1. Disinfection & Cleaning

All pipettes are disinfected and carefully cleaned when they enter our lab.

2. Repair & Maintenance

All pipettes are leak tested to check the condition of the sealing rings, and then visually inspected for damage or worn parts.

3. Calibration & Documentation

Gravimetric calibration is performed as detailed in the service table on the page opposite.

Our fully air-conditioned calibration laboratory is equipped with the latest generation of precision 5- and 6-place balances.

The environmental conditions are recorded and included in the calculation of the measurement results, and documented on the Certificate of Calibration supplied with all pipettes for all service levels, with the exception of QuickCal.

CaliStar calibration software

CaliStar is STARLAB's own, bespoke calibration software. The software was designed by us to improve the efficiency of our pipette service as a whole.

The software tracks the service status of each pipette, the spares used, the service level carried out and the calibration results, as well as generating electronic signatures for certificates to enable the whole process to be fully paperless (certificates can be printed if preferred).

The software is fully integrated with our back-office system in order to generate bespoke invoicing to our customer's requirements.

Pipette service history

CaliStar has enhanced the information we are able to provide to our

customers. CaliStar will provide the service history of an individual pipette, what it is costing to maintain over a period of time and how it is performing. Over subsequent years, these reports will allow customers to identify any pipettes requiring frequent and/or expensive repairs

4. Fast processing

Time is money! We have a quick turnaround time and your pipettes will be returned to you within a few days.

STARLAB Quality

Trust is good – certification is better!



As an ISO 9001, 14001 and 13485

certified company, working procedures and processes at STARLAB are checked and audited regularly and the quality of products is continuously monitored.

Volumen	Mittelwert	Standardabweichung	CV	Ergebnis
100 µl	100,00	0,0002	0,0002 %	OK
200 µl	200,00	0,0003	0,0015 %	OK
500 µl	500,00	0,0005	0,0010 %	OK
1000 µl	1000,00	0,0008	0,0008 %	OK

Bedingungen:
 Lufttemperatur: 22,2 °C
 Wassertemperatur: 21,2 °C
 Relative Luftfeuchtigkeit: 50,0 %
 Messort: MÜNCHEN
 Kalibrierdatum: 11.11.2015

Service levels

		SERVICE LEVELS					
		QuickCal	1 STAR ★	2 STAR ★★	3 STAR ★★★	GLP 3 STAR ★★★	
		Quick check, recommended for eg. Check between service intervals	Standard check	Quality check	Conformity check in compliance with EN ISO 8655 and DKD-R 8-1	Conformity check including entrance (As Found) measurement	
Service	Pipette disassembled and inspected, leak test, worn parts replaced,* Internal cleaning, return	✓	✓	✓	✓	✓	
	External cleaning	–	✓	✓	✓	✓	
Calibration	Number of test volumes	1	1	3**	3**	3**	
	Readings of test volume	3	4	4	10	10	
	Number of Channels	Single-Channel fixed volume	1	1	1	1	1
		Single-Channel variable volume, manual/electronic	1	1	1	1	1
		8-Channel	n/a	8	8	8	8
		12-Channel	n/a	12	12	12	12
	Calibration Certificate with actual value		–	✓	✓	✓	✓
	Entrance (As Found) measurement with Calibration Certificate of actual value		–	–	–	–	✓
All measurements are carried out with TipOne® pipette tips. If you would prefer the calibration to be carried out with the original manufacturer's tips, please provide us with a sufficient quantity.							

n/a = not available. 16-Channel Pipettes and other services on request.

*Parts are charged at extra cost. Should you need an estimate of costs please inform us.

** For Single-Channel fixed volume pipettes 1 test volume only. 2 Star Service is not available for Single-Channel fixed volume pipettes.

IMPORTANT!

All pipettes for servicing must be accompanied by a signed Declaration of Decontamination so we know they are safe for us to work on. We can not service or calibrate a pipette without a completed and signed declaration. Forms can be downloaded from our website.

All pipettes must be securely packed to avoid damage during transit.



Order form

Please write clearly!

Delivery Address

Invoice Address
If different from Delivery Address

Sender's information					
customer number	your order number	contact	telephone	fax	e-mail

Inspection interval (please tick one)					
annually		bi-annually		quarterly	

Pipette information / calibration requirements				
manufacturer	volume	serial no.	comment / identified problem	service level (please tick)
1.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
2.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
3.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
4.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
5.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
6.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
7.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
8.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair
9.				<input type="checkbox"/> 1 STAR <input type="checkbox"/> 2 STAR <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> QuickCal <input type="checkbox"/> repair

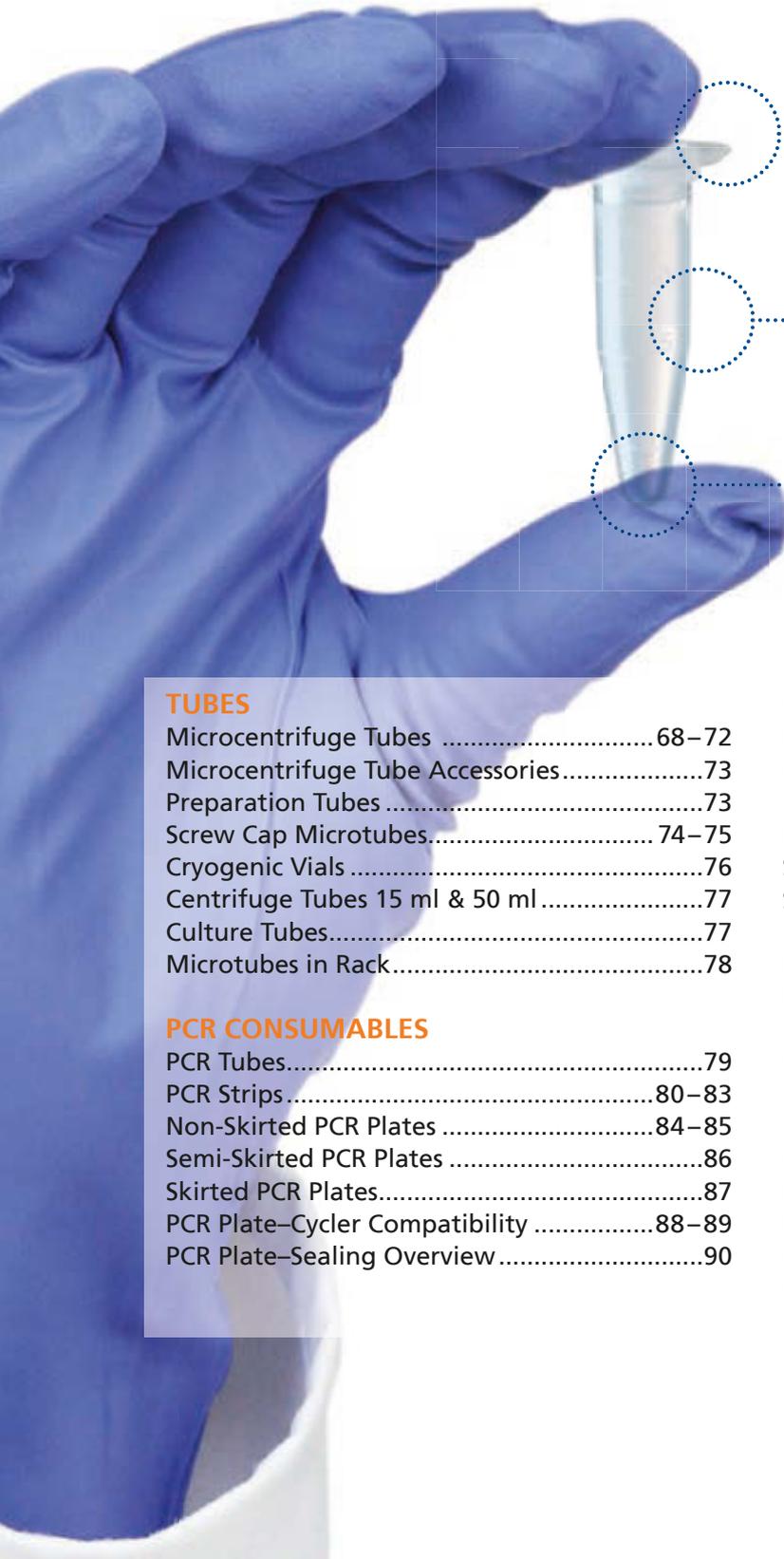
Declaration of decontamination			
Please be aware that our technicians only accept decontaminated/non-hazardous pipettes. Please confirm your pipettes are safe for us to work on by completing and signing the Declaration below. If you don't complete the declaration we can't start to work on your pipettes. Thank you for your assistance.			
Was decontamination of the pipette(s) necessary?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
If yes, what was the nature of contamination?			
Method of decontamination:			
I confirm that my pipettes have been cleaned and decontaminated of any microbiological, chemical or radioactive contamination and that they are safe to handle.	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">date</td> <td style="width: 50%;">signature</td> </tr> </table>	date	signature
date	signature		

STARLAB International GmbH / Pipette-Service
 Neuer Höltigbaum 38 · 22143 Hamburg
 T: +49 40 675 99 39 12 · F: +49 40 675 99 39 20
 service@starlab.de · www.starlab.de

Consumables

Not just plastic!

Expertly designed, injection-moulded
high quality consumables.



secure closing

no additives

perfect shape

TUBES

Microcentrifuge Tubes	68–72
Microcentrifuge Tube Accessories.....	73
Preparation Tubes	73
Screw Cap Microtubes.....	74–75
Cryogenic Vials	76
Centrifuge Tubes 15 ml & 50 ml.....	77
Culture Tubes.....	77
Microtubes in Rack.....	78

PCR CONSUMABLES

PCR Tubes.....	79
PCR Strips	80–83
Non-Skirted PCR Plates	84–85
Semi-Skirted PCR Plates	86
Skirted PCR Plates.....	87
PCR Plate–Cycler Compatibility	88–89
PCR Plate–Sealing Overview	90

PLATES

PlateOne® Deepwell Plates.....	91
PlateOne® Microplates.....	92

PLATE SEALING

Sealing Films & Foils.....	93
Sealing Accessories.....	93

PARAFILM®

Parafilm® Sealing Film.....	94
-----------------------------	----

REAGENT RESERVOIRS

LABELLING

Laboratory Labels.....	96
Laboratory ID Tape.....	97
BMP™ 21 -LAB Label Printer	98
Label Cartridges for BMP™ 21 Printer Series.....	99
Label Cartridges for LabPal™ & LabXpert™	100

Microcentrifuge Tubes



TubeOne® microcentrifuge tubes

TubeOne® tubes stay sealed during boiling, freezing or centrifuging, and are still easy to open afterwards! Optically clear without compromising structural integrity, the tubes feature a frosted writing surface.

TubOne® tubes are made from pure polypropylene and are manufactured with state of the art production equipment housed in a positive pressure HEPA filtered environment. No processing additives such as slip agents, biocides or anti-static agents are used during production. Your samples remain protected from potential bioactive contaminants.

Features

- ▶ Conservatively rated to 20,000 x g, but will perform to higher specification under optimal conditions
- ▶ Supplied in resealable bags
- ▶ Save on autoclaving with the convenient mini-packs
- ▶ Temperature range: -80°C to 121°C
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and Pyrogen free

TubeOne

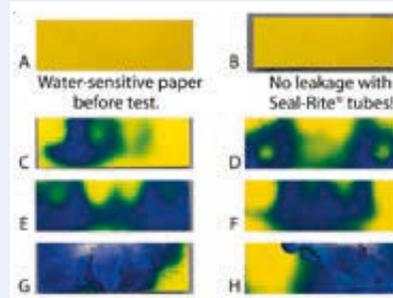


TubeOne® Microcentrifuge Tubes			
Description / Tube Colour	Sterile	Pack Size	Cat. No.
0.5 ml TubeOne® Microcentrifuge Tubes			
0.5 ml TubeOne® Microcentrifuge Tube, Natural	No	5 x 200	S1605-0000
0.5 ml TubeOne® Microcentrifuge Tube, Mixed*	No	5 x 200	S1605-0099
1.5 ml TubeOne® Microcentrifuge Tubes			
1.5 ml TubeOne® Microcentrifuge Tube, Natural	No	500	S1615-5500
1.5 ml TubeOne® Microcentrifuge Tube, Natural	No	5 x 100	S1615-5550
1.5 ml TubeOne® Microcentrifuge Tube, Natural	Yes	5 x 100	S1615-5510
1.5 ml TubeOne® Microcentrifuge Tube, Mixed*	No	5 x 100	S1615-5599
2.0 ml TubeOne® Microcentrifuge Tubes			
2.0 ml TubeOne® Microcentrifuge Tube, Natural	No	500	S1620-2700
2.0 ml TubeOne® Microcentrifuge Tube, Mixed*	No	5 x 100	S1620-2799

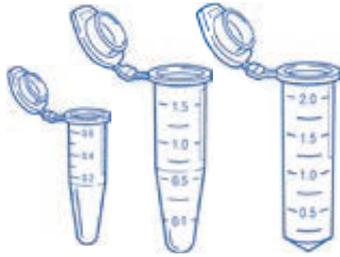
*Mixed packs contain following colour tubes: blue, green, red, violet and yellow.

Microcentrifuge tube leak test

Does your tube maintain a seal while heating? Although a tube may remain closed, evaporation can occur when a seal is incomplete. TubeOne® passes the test with no leaks! Water-sensitive paper has a special-coated yellow surface that turns blue when exposed to moisture. This indicating paper (A) was placed across the top of TubeOne® (B) and other brands of tube (C–H), all containing 1.0 ml of 50 % ethanol and incubated at 95°C for 15 minutes in a dry bath with a tightly closed lid. Tubes C–H showed varying levels of failure.



www.starlab.click/tubeone



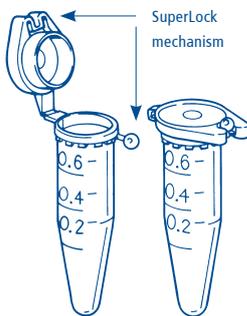
Crystal Clear Tubes – The difference is clear!

- ▶ ‘Crystal Clear’ polypropylene tubes for the ultimate in sample visibility
- ▶ Ultra smooth tube bottoms for 100% visibility
- ▶ Frosted writing surface
- ▶ Autoclavable
- ▶ Thin cap membrane for easy sample access with a syringe needle
- ▶ Rated at 14,000–20,000 x g
- ▶ Certified RNase, DNase and Pyrogen free

‘Crystal Clear’ Microcentrifuge Tubes

Description	Sterile	Pack Size	Cat. No.
0.6 ml Crystal Clear Microcentrifuge Tube	No	2 x 500	E1405-0600
0.6 ml Crystal Clear Microcentrifuge Tube	Yes	5 x 100	E1405-0610
1.5 ml Crystal Clear Microcentrifuge Tube	No	500	E1415-1500
1.5 ml Crystal Clear Microcentrifuge Tube	Yes	5 x 50	E1415-1510
2.0 ml Crystal Clear Microcentrifuge Tube	No	500	E1420-2000
2.0 ml Crystal Clear Microcentrifuge Tube	Yes	5 x 50	E1420-2010

NOTE: Due to the sterilisation process, sterile tubes are not quite as clear as the non-sterile tubes.



Super safe, SuperLock tubes

- ▶ Locking tubes for high security.
- ▶ Pierceable cap and frosted writing area
- ▶ Rated at 17,000 x g
- ▶ Certified RNase and DNase free

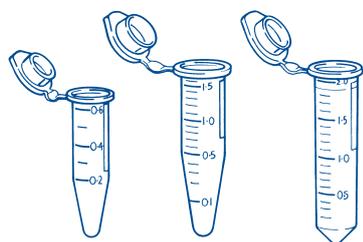
Locking Microcentrifuge Tubes

Description	Sterile	Pack Size	Cat. No.
0.5 ml SuperLock Microcentrifuge Tube, Natural	No	1000	E1405-5100
1.5 ml SuperLock Microcentrifuge Tube, Natural	No	500	I1415-5100
2.0 ml SuperLock Microcentrifuge Tube, Natural	No	500	E1420-5100
2.0 ml SuperLock Microcentrifuge Tube, Mixed*	No	500	E1420-5108

*Mixed packs contain following colour tubes: blue, green, orange, pink, violet and yellow.

FREE SAMPLE
TRY
before you
BUY
available on request

Microcentrifuge Tubes



Ultra high recovery tubes

Convenient for RNA or DNA pelleting or protein handling which often requires a low-adhesion surface, these ultra high recovery polypropylene tubes are completely non-reactive. Rated to over 20,000 x g. Temp. range: -80°C to 121°C. Autoclavable. Certified RNase, DNase, DNA and PCR Inhibitor free.

Ultra High Recovery Microcentrifuge Tubes			
Description	Colour	Pack Size	Cat. No.
0.5 ml Ultra High Recovery Microcentrifuge Tube	Natural	500	E1405-2600
1.5 ml Ultra High Recovery Microcentrifuge Tube	Natural	250	E1415-2600
2.0 ml Ultra High Recovery Microcentrifuge Tube	Natural	250	I1420-2600



High speed tubes

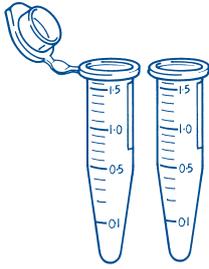
- ▶ Solidly constructed for high speed centrifugation of max. 35,000 x g (not routinely tested at this force)
- ▶ 1.5 ml or 2.0 ml
- ▶ Temperature range: -90 °C to 121 °C
- ▶ Autoclavable
- ▶ Certified RNase, DNase & DNA free



Microcentrifuge Tube 0,5 ml			
Description	Colour	Pack Size	Cat. No.
0.5 ml Homopolymer Microcentrifuge Tube	Natural	500	I1405-1500
0.5 ml Homopolymer Microcentrifuge Tube	Blue	500	I1405-1501
0.5 ml Homopolymer Microcentrifuge Tube	Green	500	I1405-1502
0.5 ml Homopolymer Microcentrifuge Tube	Orange	500	I1405-1503
0.5 ml Homopolymer Microcentrifuge Tube	Red	500	I1405-1504
0.5 ml Homopolymer Microcentrifuge Tube	Violet	500	I1405-1505
0.5 ml Homopolymer Microcentrifuge Tube	Yellow	500	I1405-1506
0.5 ml Homopolymer Microcentrifuge Tube	Amber	500	I1405-1507
0.5 ml Homopolymer Microcentrifuge Tube	Mixed	500	I1405-1508



www.starlab.click/tubeone



Microcentrifuge Tube 1.5ml			
Description	Colour	Pack Size	Cat. No.
1.5 ml Homopolymer Microcentrifuge Tube	Natural	500	I1415-1000
1.5 ml Homopolymer Microcentrifuge Tube	Blue	500	I1415-1001
1.5 ml Homopolymer Microcentrifuge Tube	Green	500	I1415-1002
1.5 ml Homopolymer Microcentrifuge Tube	Orange	500	I1415-1003
1.5 ml Homopolymer Microcentrifuge Tube	Red	500	I1415-1004
1.5 ml Homopolymer Microcentrifuge Tube	Violet	500	I1415-1005
1.5 ml Homopolymer Microcentrifuge Tube	Yellow	500	I1415-1006
1.5 ml Homopolymer Microcentrifuge Tube	Amber	500	I1415-1007
1.5 ml Homopolymer Microcentrifuge Tube	Mixed	500	I1415-1008
1.5 ml Homopolymer Microcentrifuge Tube (no Cap)	Natural	500	E1415-2850



Microcentrifuge Tube 1.5ml			
Description	Colour	Pack Size	Cat. No.
Microcentrifuge Tube 1.5 ml	Natural	500	I1415-2500
Microcentrifuge Tube 1.5 ml	Blue	500	I1415-2501
Microcentrifuge Tube 1.5 ml	Green	500	I1415-2502
Microcentrifuge Tube 1.5 ml	Orange	500	I1415-2503
Microcentrifuge Tube 1.5 ml	Red	500	I1415-2504
Microcentrifuge Tube 1.5 ml	Violet	500	I1415-2505
Microcentrifuge Tube 1.5 ml	Yellow	500	I1415-2506
Microcentrifuge Tube 1.5 ml	Mixed	500	I1415-2508



Microcentrifuge Tube/Cap 2.0ml			
Description	Colour	Pack Size	Cat. No.
2.0 ml Homopolymer Microcentrifuge Tube	Natural	500	I1420-2700
2.0 ml Homopolymer Microcentrifuge Tube	Blue	250	I1420-2701
2.0 ml Homopolymer Microcentrifuge Tube	Green	250	I1420-2702
2.0 ml Homopolymer Microcentrifuge Tube	Orange	250	I1420-2703
2.0 ml Homopolymer Microcentrifuge Tube	Red	250	I1420-2704
2.0 ml Homopolymer Microcentrifuge Tube	Violet	250	I1420-2705
2.0 ml Homopolymer Microcentrifuge Tube	Yellow	250	I1420-2706
2.0 ml Homopolymer Microcentrifuge Tube	Amber	250	I1420-2707
2.0 ml Homopolymer Microcentrifuge Tube	Mixed	250	I1420-2799
2.0 ml Homopolymer Microcentrifuge Tube, no Cap	Natural	500	E1420-2850

Microcentrifuge Tubes



Single wrapped microcentrifuge tubes

Sterile, certified free of RNase/DNase, DNA, Pyrogen, Endotoxin, ATP, Bioburden, and PCR Inhibitors.

Microcentrifuge Tube 1.5ml Single Wrap			
Description	Colour	Pack Size	Cat. No.
Microcentrifuge Tube 0.6 ml Single Wrap, Sterile	Natural	500	I1405-0510
Microcentrifuge Tube 1.5 ml Single Wrap, Sterile	Natural	250	I1415-5510



Capless microcentrifuge tube

Microcentrifuge Tube (No Cap) 1.5ml PP			
Description	Colour	Pack Size	Cat. No.
Microcentrifuge Tube (No Cap) 1.5 ml	Natural	1000	I1414-5500



Microcentrifuge tube with cap

- ▶ Volume: 0.4 ml
- ▶ Rated at: 25,000 x g
- ▶ Low density polyethylene
- ▶ LDPE is soft and easily cut to remove pellets
- ▶ Autoclavable

Microcentrifuge Tube/attached Cap 0.4ml			
Description	Colour	Pack Size	Cat. No.
Microcentrifuge Tube/attached Cap 0.4 ml	Natural	1000	I1404-1000



www.starlab.click/tubes

Microcentrifuge Tube Accessories

Microcentrifuge Tube Accessories				
		For Use with	Pack Size	Cat. No.
	Cap Locks: Reusable cap locks to securely seal tubes for rigorous boiling/freezing. Assorted colours for easier sample identification. Compatible with 'Crystal Clear' Microcentrifuge Tubes.	0.5 ml Tubes	100	E1405-9000
		1.5/2.0 ml Tubes	100	I1415-1508
	Tube Openers: For use with all microcentrifuge tubes, 0.5 ml to 2.0 ml. Also aids the safe opening of glass ampules.	0.5 ml to 2.0 ml Tubes	100	I1400-1008
	Microtube Pestles: Disposable polypropylene pestles. Ideal for homogenising cells or resuspending DNA or protein pellets. Certified RNase, DNase and DNA free.	0.5 ml Tubes	10	I1405-4390
		1.5/2.0 ml Tubes	10	I1415-5390

All Cap Locks, Microtube Openers and Microtube Pestles are supplied in mixed packs of blue, green, orange, red, pink and yellow.



Preparation Tubes

Do you need to prepare samples up to 5.0 ml but don't want to use 15 ml tubes? Then use our 5.0 ml preparation tubes!

- ▶ Ideal for biological or chemical solution preparation
- ▶ Suitable for microbial incubation and pellet preparation
- ▶ Black tube for light sensitive reactions
- ▶ Made from virgin polypropylene, the tubes are graduated at 1.0 ml intervals
- ▶ Frosted writing areas on cap and side of tube
- ▶ Temperature use: -80 °C to 121 °C
- ▶ Autoclavable
- ▶ Centrifugation rate: 6000 x g
- ▶ Certified RNase, DNase, human DNA and pyrogen free



5.0ml Preparation Tubes			
Description	Colour	Pack Size	Cat. No.
Conical Tubes			
5.0 ml Preparation Tube, Conical	Natural	200	E1450-1100
5.0 ml Preparation Tube, Conical	Blue	200	E1450-1101
5.0 ml Preparation Tube, Conical	Green	200	E1450-1102
5.0 ml Preparation Tube, Conical	Red	200	E1450-1104
5.0 ml Preparation Tube, Conical	Yellow	200	E1450-1106
5.0 ml Preparation Tube, Conical	Black	200	E1450-1108
Skirted Tube			
5.0 ml Preparation Tube, Skirted	Natural	250	E1450-1000*

Dimensions (HxØ): 60 x 18 mm (tube) / 30 mm (cap at widest point).

*E1450-1000 skirted tube is not certified.

Screw Cap Microtubes

Mix and match – tubes and caps!

- ▶ Suitable for many applications from sample storage in the **gas phase of liquid nitrogen** to freezer, through boiling to autoclave
- ▶ Routinely tested to 20,000 x g
- ▶ All tubes and caps are autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free

Tubes only												
												
Tube Volume:		0.5 ml	0.5 ml	0.5 ml	1.5 ml	1.5 ml	1.5 ml	1.5 ml	2.0 ml	2.0 ml	2.0 ml	
Tube Style:		Ribbed	Plain	Plain	Ribbed	Ribbed	Graduated	Plain	Ribbed	Graduated	Graduated	
Tube Base:		Skirted	Skirted	Conical	Skirted	Conical	Conical	Skirted	Skirted	Conical	Skirted	
Natural Tubes 100% polypropylene		E1405-2120 Pack 500	E1405-2140 Pack 500	E1405-2130 Pack 500	E1415-2220 Pack 500	E1415-2210 Pack 500	E1415-2230 Pack 500	E1415-2240 Pack 500	E1420-2320 Pack 500	E1420-2330 Pack 500	E1420-2340 Pack 500	
Amber Tubes 100% polypropylene Suitable for light sensitive samples.		E1405-2127 Pack 500	n/a	n/a	E1415-2227 Pack 500	n/a	E1415-2237 Pack 500	n/a	n/a	E1420-2337 Pack 500	E1420-2347 Pack 500	

EasyGrip Caps only									
									
Colour:	Natural/White	White/Blue	White/Green	White/Orange	White/Red	White/Violet	White/Yellow	White/White	Mixed
Easy Grip Caps Opaque white* polypropylene cap with a coloured seal/grip made from inert TPE. One-piece construction ensures a leak-free seal that will never fall out!	E1480-0300 Pack 500	E1480-0301 Pack 500	E1480-0302 Pack 500	E1480-0303 Pack 500	E1480-0304 Pack 500	E1480-0305 Pack 500	E1480-0306 Pack 500	E1480-0309 Pack 500	E1480-0399 Pack 500

*except E1480-0300

Standard & Tethered Caps only											
											
Colour:	Natural	Blue	Green	Orange	Red	Violet	Yellow	Amber	Black	White	Mixed
Standard Caps Polypropylene cap with separate, ethylene-propylene o-ring to form a seal against rim of tube.	E1480-0100 Pack 500	E1480-0101 Pack 500	E1480-0102 Pack 500	E1480-0103 Pack 500	E1480-0104 Pack 500	E1480-0105 Pack 500	E1480-0106 Pack 500	E1480-0107 Pack 500	E1480-0108 Pack 500	E1480-0109 Pack 500	E1480-0199 Pack 500
Tethered Caps Polypropylene cap with separate, ethylene-propylene o-ring to form a seal against rim of tube.	E1480-0200 Pack 500	E1480-0201 Pack 500	E1480-0202 Pack 500	E1480-0203 Pack 500	E1480-0204 Pack 500	E1480-0205 Pack 500	E1480-0206 Pack 500	E1480-0207 Pack 500	E1480-0208 Pack 500	E1480-0209 Pack 500	E1480-0299 Pack 500

Screw Cap Microtubes (Sterile)



Sterile product is supplied in convenient, resealable mini pouches

Ready-Assembled Tubes & Caps (Sterile)					
Tube Volume:	0.5 ml	1.5 ml	1.5 ml	2.0 ml	2.0 ml
Tube Style:	Plain	Graduated	Plain	Graduated	Graduated
Tube Base:	Skirted	Conical	Skirted	Conical	Skirted
with Natural Standard Caps (Sterile) Ready-assembled tubes and natural standard caps with o-ring seal.	E1405-2141 Pack 5 x 50	E1415-2231 Pack 5 x 50	E1415-2241 Pack 5 x 50	E1420-2331 Pack 5 x 50	E1420-2341 Pack 5 x 50
with Natural Tethered Caps (Sterile) Ready-assembled tubes and natural tethered caps with o-ring seal.	E1405-2142 Pack 5 x 50	E1415-2232 Pack 5 x 50	E1415-2242 Pack 5 x 50	E1420-2332 Pack 5 x 50	E1420-2342 Pack 5 x 50
with Natural/White EasyGrip Caps (Sterile) Ready-assembled tubes and natural EasyGrip Caps with white integral grip/seal.	E1405-2143 Pack 5 x 50	E1415-2233 Pack 5 x 50	E1415-2243 Pack 5 x 50	E1420-2333 Pack 5 x 50	E1420-2343 Pack 5 x 50
with White/Colour EasyGrip Caps (Sterile)* Ready-assembled tubes and opaque white EasyGrip Caps with coloured, integral grip/seal.	E1405-030# Pack 5 x 50	E1415-030# Pack 5 x 50	E1415-031# Pack 5 x 50	E1420-030# Pack 5 x 50	E1420-031# Pack 5 x 50

*To order colour of grip/seal required, replace # as last digit of Cat. No. with:



Assembled sterile tubes & caps

- ▶ Sterile, ready-assembled tube and cap packs
- ▶ Supplied in convenient, resealable mini pouches which stand up on your bench
- ▶ Suitable for many applications from sample storage in the **gas phase of liquid nitrogen** through freezer to boiling
- ▶ Routinely tested to 20,000 x g
- ▶ Certified RNase, DNase, DNA, PCR Inhibitor and endotoxin free



Ready-assembled sterile tubes with EasyGrip Caps

E1420-0314

High Impact Screw Cap Microtubes

High impact tube specially formulated for bead-beating applications



Shatter resistant, semi-opaque polypropylene tube with natural, polypropylene screw cap with ethylene-polypropylene o-ring inside.

Supplied ready assembled.

- ▶ Temperature use: -80 °C to 121 °C
- ▶ Autoclavable
- ▶ Routinely tested to 15,000 x g
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free

High Impact Screw Cap Microtube		
Description	Pack Size	Cat. No.
2.0 ml Graduated, High Impact Screw Cap Microtube	200	E1420-2641

Cryogenic Vials

STARLAB Cryogenic Vials have been developed for the storage and transportation of biological material.

- ▶ Made from 100% polypropylene
- ▶ For storage down to -196 °C; **should only be used in the gas phase of liquid nitrogen**
- ▶ Internal threaded vials with a silicone seal in cap for the highest possible impermeability
- ▶ Skirted vials lock into racks for easy single-handed work
- ▶ White writing area and highly-visible black graduations at 100µl increments
- ▶ Certified free of RNase, DNase, DNA, PCR Inhibitors and Endotoxins

Cryogenic Vials (Sterile)							
	Tube Volume	1.0 ml	1.8 ml	1.8 ml	3.6 ml	3.6 ml	4.5 ml
	Tube Style	Skirted	Conical	Skirted	Conical	Skirted	Conical
		E3090-6212 Pack Size: 10 x 50 Height: 41 mm	E3090-6321 Pack Size: 10 x 50 Height: 43 mm	E3090-6222 Pack Size: 10 x 50 Height: 48 mm	n/a	n/a	E3090-6242 Pack Size: 6 x 50 Height: 91 mm
		E3110-6112 Pack Size: 10 x 50 Height: 42 mm	E3110-6121 Pack Size: 10 x 50 Height: 46 mm	E3110-6122 Pack Size: 10 x 50 Height: 49 mm	E3110-6131 Pack Size: 8 x 50 Height: 70 mm	E3110-6132 Pack Size: 8 x 50 Height: 71 mm	E3110-6141 Pack Size: 6 x 50 Height: 90 mm
					E3110-6142 Pack Size: 6 x 50 Height: 91 mm		

The caps of the cryogenic vials can be colour coded with coloured cap inserts.

Coloured Cap Inserts																							
	<p>E1494-6###* Pack Size: 500</p> <p>*To order the colour required, replace ### as last three digits of Cat. No. with:</p> <table border="0"> <tr> <td></td> </tr> <tr> <td>001 Blue</td> <td>002 Green</td> <td>003 Orange</td> <td>004 Red</td> <td>104 Pink</td> <td>005 Violet</td> <td>006 Yellow</td> <td>007 Brown</td> <td>108 Grey</td> <td>009 White</td> <td>099 Mixed</td> </tr> </table>												001 Blue	002 Green	003 Orange	004 Red	104 Pink	005 Violet	006 Yellow	007 Brown	108 Grey	009 White	099 Mixed
001 Blue	002 Green	003 Orange	004 Red	104 Pink	005 Violet	006 Yellow	007 Brown	108 Grey	009 White	099 Mixed													



Supplied in convenient, resealable, self-standing pouches

50-Place Lock Racks		
Description	Pack Size	Cat. No.
50-Place Lock Rack, Blue	4	E2350-4001
50-Place Lock Rack, Red	4	E2350-4004
50-Place Lock Rack, Violet	4	E2350-4005

Cryogenic Accessories		
Description	Pack Size	Cat. No.
Storage Canes		
Storage Canes for 5 x 1.2/2.0 ml Cryogenic Vials	12	E2005-5000
Cryogenic Labels for use down to -196°C		
StarTag Cryo (38 x 15 mm), White	1000 Labels/Roll	E9189-3009

See pages 122–123 for cryogenic storage boxes and work racks



Centrifuge Tubes 15 ml & 50 ml



Don't get in a spin! Use STARLAB centrifuge tubes!

- ▶ Clear, polypropylene tubes with blue HDPE screw caps
- ▶ Clearly marked graduations
- ▶ White writing surface
- ▶ Sterile
- ▶ Centrifugation rates (swing bucket / fixed angle rotors): 4,000 / 15,000 x g (15 ml)
3,200 / 9,500 x g (50 ml)
- ▶ Certified RNase, DNase, DNA and pyrogen free

Centrifuge Tubes		
Description	Pack Size	Cat. No.
15 ml Centrifuge Tubes		
15 ml Centrifuge Tube, Conical, Loose (Sterile)	10 x 50-Tube Bags	E1415-0200
15 ml Centrifuge Tube, Conical, Racked (Sterile)	10 x 50-Tube Racks	E1415-0800
50 ml Centrifuge Tubes		
50 ml Centrifuge Tube, Conical, Loose (Sterile)	10 x 50-Tube Bags	E1450-0200
50 ml Centrifuge Tube, Conical, Racked (Sterile)	20 x 25-Tube Racks	E1450-0800

Dimensions incl. cap (HxØ): 15 ml: 120.5 x 22 mm. 50 ml: 115.5 x 34.9 mm.

Skirted 50 ml centrifuge tubes

- ▶ Clear polypropylene tubes with blue High-Density Polyethylene screw caps
- ▶ Centrifugation rate (swing bucket / fixed angle rotors): 2,800 / 11,500 x g
- ▶ Clearly marked graduations and white writing area
- ▶ Sterile and certified RNase, DNase, DNA and Pyrogen free

Skirted Centrifuge Tubes		
Description	Pack Size	Cat. No.
50 ml Centrifuge Tube, Skirted, Loose (Sterile)	10 x 50-Tube Bags	E1450-0500

Dimensions incl. cap (HxØ): 116.5 x 34.9 mm.

Culture Tubes



Polypropylene or polystyrene

These disposable sterile tubes can be used for most routine laboratory procedures. They are made from polypropylene (PP) or polystyrene (PS), biologically inert and exempt from mold release agents. High re-

sistance to breakage reduces danger in handling infectious or other potentially harmful cultures. The dual position polyethylene caps can be left loose for aerobic work or sealed for anaerobic culture.

- ▶ 14 ml capacity
- ▶ White writing area
- ▶ Graduations marked at 0.25 ml increments
- ▶ Centrifugation rates: 3000 x g (PP), 1400 x g (PS)
- ▶ Temperature use: -190 °C to 120 °C (PP) / -10 °C to 70 °C (PS)
- ▶ Sterile

Culture Tubes		
Description	Pack Size	Cat. No.
Polypropylene Culture Tube with Cap (Sterile)	20 x 25-Tube Bags	I1485-0810
Polystyrene Culture Tube with Cap (Sterile)	20 x 25-Tube Bags	I1485-2810

Dimensions (HxØ) 95 x 17 mm. PP tubes are autoclavable, but only without the cap.

Microtubes in Rack



Non-sterile product certified RNase and DNase free
Sterile product certified RNase, DNase, DNA and Pyrogen free

Microtubes in rack with removable base

A heavy-duty rack with the same footprint as a standard plate, containing 96 individual 1.2 ml tubes. Each tube is fully supported at the base to withstand the pressures applied by robotic systems. The base of the rack can be easily removed for waterbath applications. Moulded reference grid on lid. Suitable for use in temperatures down to -80 °C.

1.2 ml Microtubes in Rack

Description	Pack Size	Cat. No.
1.2 ml Microtubes in Rack	10	I1412-7400
1.2 ml Microtubes in Rack (Sterile)	10	I1412-7410
8-Strip Caps for 1.2 ml Microtubes	120	I1494-1400
8-Strip Caps for 1.2 ml Microtubes (Sterile)	120	I1494-1410

NOTE: PP tubes and racks are autoclavable, but the PE strip caps can not be autoclaved.
Rack dimensions with lid (WxDxH): 85 x 127 x 41 mm.

Organised storage!

- ▶ SBS footprint and compatible with all robotic applications and multi-channel pipetting
- ▶ Ideal for serial dilutions, mixing, storage and harvesting of cells, cell growth assays, DNA screening and long-term storage
- ▶ Interchangeable system offering a wide choice of configurations
- ▶ Rack has clear, printed matrix and transparent lid
- ▶ Temperature use: -80°C to 121°C
- ▶ Certified RNase, DNase, DNA and Pyrogen free



Micro-Dilution Tube System

Description	Pack Size	Cat. No.
Racks / Individual Tubes		
1.2 ml Reaction Tubes in Rack (96 Individual Tubes)	10	E1750-0400
1.2 ml Reaction Tubes in Rack (96 Individual Tubes) (Sterile)	10	E1750-0410
1.2 ml Individual Reaction Tubes	1000	E1710-0000
Racks / 8-Strip Tubes		
1.2 ml Reaction Tubes in Rack (12 x 8-Strip Tubes)	10	E1760-8400
1.2 ml Reaction Tubes in Rack (12 x 8-Strip Tubes) (Sterile)	10	E1760-8410
1.2 ml 8-Strip Reaction Tubes	125	E1720-8000
Racks / 12-Strip Tubes		
1.2 ml Reaction Tubes in Rack (8 x 12-Strip Tubes)	10	E1770-9400
1.2 ml Reaction Tubes in Rack (8 x 12-Strip Tubes) (Sterile)	10	E1770-9410
1.2 ml 12-Strip Reaction Tubes	80	E1730-9000
Strip Caps		
8-Strip Caps for 1.2 ml Reaction Tubes	125	E1702-8400
8-Strip Caps for 1.2 ml Reaction Tubes (Sterile)	125	E1702-8410
12-Strip Caps for 1.2 ml Reaction Tubes	80	E1703-9400
12-Strip Caps for 1.2 ml Reaction Tubes (Sterile)	80	E1703-9410

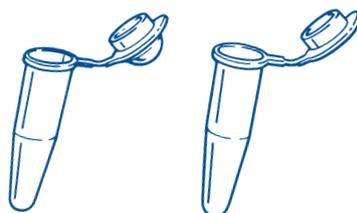
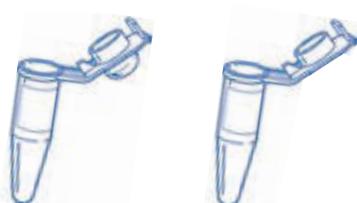
NOTE: PP tubes and racks are autoclavable, but the PE strip caps can not be autoclaved.
Rack dimensions with lid (WxDxH): 128 x 85.5 x 47.25 mm.

 www.starlab.click/microtubes

PCR Tubes

Single tubes

- ▶ 0.2 ml and 0.5 ml polypropylene tubes for PCR
- ▶ Natural or mixed
- ▶ 0.2 ml tube with 'Xtra-Clear' flat cap for qPCR
- ▶ 0.5 ml option with pierceable cap
- ▶ Positive click on closing gives assurance tubes are fully closed
- ▶ Compatible with most thermal cyclers
- ▶ Supplied in resealable bags
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free



0.2 ml PCR Tubes			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.2 ml PCR Tube, Domed Cap	Natural	1000	I1402-4300
0.2 ml PCR Tube, Domed Cap	Mixed*	5 x 200	I1402-4308
Flat Caps			
0.2 ml PCR Tube, Flat Cap	Natural	1000	I1402-8100
0.2 ml PCR Tube, Flat Cap	Mixed*	5 x 200	I1402-8108
0.2 ml PCR Tube, Flat Cap (Xtra-Clear)	Natural	1000	I1402-8200

* Mixed packs contain: blue, green, red, violet and yellow.

These tubes have an integral shield on the cap which prevents accidental finger contamination with the surface of the lid.

0.2 ml PCR Tubes, Shielded Caps			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.2 ml PCR Tube, Domed Shielded Cap	Natural	1000	S1602-4300
Flat Caps			
0.2 ml PCR Tube, Flat Shielded Cap	Natural	1000	B1402-5500

0.5 ml PCR Tubes			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.5 ml PCR Tube, Domed Cap	Natural	1000	I1405-8200
Flat Caps			
0.5 ml PCR Tube, Flat Cap	Natural	1000	I1405-8100
0.5 ml PCR Tube, Flat Cap	Mixed*	5 x 200	I1405-8108
0.5 ml PCR Tube, Flat Pierceable Cap	Natural	1000	B1408-3300

* Mixed packs contain: blue, green, red, violet and yellow.

PCR Strips

Strip tubes and strip caps

- ▶ Polypropylene 8- and 12- tube and cap strips, available separately
- ▶ Tubes can easily be split into smaller sections by snapping the strips apart
- ▶ Perfect Seal domed caps for easier attachment to plates without affecting the seal
- ▶ Opaque white 8-strip tubes for qPCR
- ▶ 'Xtra-Clear' flat cap strips for qPCR
- ▶ Supplied in resealable bags
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free



FREE SAMPLE
TRY
before you
BUY
available on request



8-Strip Tubes & Caps

Description	Colour	Pack Size	Cat. No
Strip Tubes			
0.2 ml 8-Strip PCR Tubes	Natural	125	I 1402-3500
0.2 ml 8-Strip PCR Tubes	Natural	10 x 125	I 1402-3500-C
0.2 ml 8-Strip PCR Tubes	Mixed*	5 x 25	I 1402-3508
0.2 ml 8-Strip PCR Tubes	White	125	I 1402-3509
0.1 ml 8-Strip PCR Tubes, Low-Profile	Natural	125	I 1402-3600
0.1 ml 8-Strip PCR Tubes, Low-Profile	White	125	I 1402-3609
Strip Caps			
8-Strip PCR Caps, Domed	Natural	125	I 1400-0800
8-Strip PCR Caps, Domed	Natural	10 x 125	I 1400-0800-C
8-Strip PCR Caps, Domed	Mixed*	5 x 25	I 1400-0808
8-Strip PCR Caps, Domed, Perfect Seal	Natural	125	I 1400-0810
8-Strip PCR Caps, Domed, Perfect Seal	Mixed*	5 x 25	I 1400-0818
8-Strip PCR Caps, Flat (Xtra-Clear)	Natural	125	I 1400-0900
8-Strip Tube & Cap Combo Packs			
0.1 ml 8-Strip PCR Tubes, Low-Profile and 8-Strip PCR Caps, Flat (Xtra-Clear)	Natural	125	I 1402-4700
0.2 ml 8-Strip PCR Tubes and 8-Strip PCR Caps, Flat (Xtra-Clear)	Natural	125	I 1402-5700
0.2 ml 8-Strip PCR Tubes and 8-Strip PCR Caps, Domed	Natural	125	I 1402-6700
0.1 ml 8-Strip PCR Tubes, Low-Profile, White and 8-Strip PCR Caps, Flat (Xtra-Clear)	White / Natural	125	I 1409-4700
0.2 ml 8-Strip PCR Tubes, White and 8-Strip PCR Caps, Flat (Xtra-Clear)	White / Natural	125	I 1409-5700

* Mixed packs contain: blue, green, red, violet and yellow.

12-Strip Tubes & Caps

Description	Colour	Pack Size	Cat. No
Strip Tubes			
0.2 ml 12-Strip PCR Tubes	Natural	80	I 1402-1200
0.2 ml 12-Strip PCR Tubes	Natural	10 x 80	I 1402-1200-C
0.2 ml 12-Strip PCR Tubes	Mixed*	5 x 16	I 1402-1208
Strip Caps			
12-Strip PCR Caps, Domed	Natural	80	I 1400-1200
12-Strip PCR Caps, Domed	Natural	10 x 80	I 1400-1200-C
12-Strip PCR Caps, Domed	Mixed*	5 x 16	I 1400-1208
12-Strip PCR Caps, Domed, Perfect Seal	Natural	80	I 1400-1300
12-Strip PCR Caps, Flat (Xtra-Clear)	Natural	80	I 1400-1290

* Mixed packs contain: blue, green, red, violet and yellow.



Tube Strips with attached caps

- ▶ Polypropylene PCR strips
- ▶ Attached caps eliminate the possibility of cross-contamination through accidental tube–cap mix up
- ▶ ‘Xtra-Clear’ flat cap options for qPCR
- ▶ Tubes with individually attached caps can easily be split into smaller sections by snapping the strips apart
- ▶ Supplied in resealable bags
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free

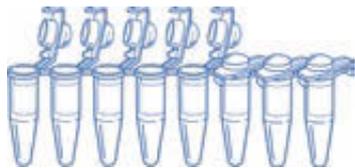


Low-Profile Strips (0.1 ml):

16.0 mm high, for use in cyclers with low-profile capability only.

Standard Strips (0.2 ml):

20.8 mm high, for use in the majority of cyclers.



8-Strip PCR Tubes with Individual Caps			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.2 ml 8-Strip PCR Tubes, Individually Attached Domed Caps	Natural	120	I1402-2900
0.2 ml 8-Strip PCR Tubes, Individually Attached Domed Caps	Mixed*	5 x 24	I1402-2908
Xtra-Clear Flat Caps, Low-Profile			
0.1 ml 8-Strip PCR Tubes, Individually Attached Flat Caps (Xtra-Clear), Low-Profile	Natural	120	A1402-3800
Xtra-Clear Flat Caps			
0.2 ml 8-Strip PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	Natural	120	A1402-3700
0.2 ml 8-Strip PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	Natural	10 x 120	A1402-3700-C

* Mixed pack contains: blue, green, red, violet and yellow.

8-Strip PCR Tubes with Individual Shielded Caps			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.2 ml 8-Strip PCR Tube, Individually Attached Domed Shielded Caps	Natural	120	S1602-2900

8-Strip PCR Tubes with Attached Strip Caps			
Description	Colour	Pack Size	Cat. No
Domed Caps			
0.2 ml 8-Strip PCR Tubes, Attached Domed Cap Strip	Natural	125	I1402-2800
Xtra-Clear Flat Caps			
0.2 ml 8-Strip PCR Tubes, Attached Flat Cap Strip (Xtra-Clear)	Natural	125	I1402-2700
0.2 ml 8-Strip White PCR Tubes, Attached, Flat Cap Strip (Xtra-Clear)	White / Natural	125	I1409-2700

White Tubes with X-Clear Caps!

White tubes to maximise reflectance for enhanced signal, combined with Xtra-Clear caps for optimal signal transmission and detection. Ideal for qPCR.

PCR Strips

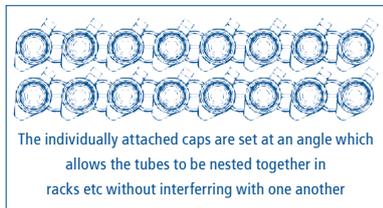
Stronger strips, easier handling!

These tubes have a robust, triple link between each tube making them less flexible and easier to handle.

Individually attached caps eliminate the possibility of cross-contamination through accidental cap-tube



mix ups. Available with natural tubes, white tubes (to maximise reflectance for enhanced signal) or with colour tubes (mixed) for colour coded projects. The strips are available in two heights: standard height (0.2 ml) or low-profile (0.1 ml) for optimum temperature balancing and reduced evaporation.



Low-Profile Strips (0.1 ml):

16.0 mm high, for use in cyclers with low-profile capability only.

Standard Strips (0.2 ml):

20.8 mm high, for use in the majority of cyclers.



- ▶ Polypropylene ,non-flex' PCR strips for easier handling
- ▶ Strip tubes available in natural, opaque white, or in mixed packs of blue, green, red, violet and yellow
- ▶ 'X-Clear' caps for Real-Time PCR
- ▶ Supplied in resealable bags
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA & PCR Inhibitor free
- ▶ Endotoxin-free

8-Strip 'Non-Flex' PCR Tubes with Individual Caps

Description	Colour	Pack Size	Cat. No
Xtra-Clear Flat Caps, Low-Profile			
0.1 ml 8-Strip Low-Profile Non-Flex PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	Natural / Natural	120	I1402-3800
0.1 ml 8-Strip Low-Profile White Non-Flex PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	White / Natural	120	I1409-3800
Xtra-Clear Flat Caps			
0.2 ml 8-Strip Non-Flex PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	Natural / Natural	120	I1402-3700
0.2 ml 8-Strip Mixed Non-Flex PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	Mixed* / Natural	120	I1402-3708
0.2 ml 8-Strip White Non-Flex PCR Tubes, Individually Attached Flat Caps (Xtra-Clear)	White / Natural	120	I1409-3700

* Mixed pack contains: blue, green, red, violet and yellow.



Rotor-Gene® Style PCR Strips

0.1 ml 4-strip tubes and caps are for use with the Rotor-Gene® Q Real-Time PCR Cycler.

- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free

Rotor-Gene® Style Strip Tubes and Caps			
Description	Colour	Pack Size	Cat. No
0.1 ml 4-Strip Rotor-Gene® Style Tubes and Caps	Natural	250	I1402-0400

PCR Discs



One pack of **72-well discs** provides 1728 reactions



One pack of **100-well discs** provides 3000 reactions

Rotor-Gene® Style Discs

These Rotor-Gene® Style Discs are specially made to be used with the Qiagen Rotor-Gene® Q Real-Time Rotary Analyzer.

Two versions are available:

- ▶ **72-well disc of 100 µl tubes** for use with the original Rotor-Disc® 72 Rotor and Rotor-Disc® 72 Locking Ring (recommended reaction volume 20–25 µl)
- ▶ **100-well disc of 30 µl tubes** for use with the original Rotor-Disc® 100 Rotor and Rotor-Disc® 100 Locking Ring (recommended reaction volume 15–20 µl)

The discs act like a one-piece circular plate with vertically oriented wells for high-throughput use for automated reaction set-up.

Product features

- ▶ Alpha-numeric matrix to aid orientation
- ▶ Certified RNase, DNase, DNA and Pyrogen free
- ▶ Supplied individually-wrapped

Rotor-Gene® Style Discs		
Description	Pack Size	Cat. No.
Rotor-Gene® Style Discs: 72 x 100 µl Tubes	24 discs	I1402-0500
Rotor-Gene® Style Discs: 100 x 30 µl Tubes	30 discs	I1402-0600



Non-Skirted PCR Plates

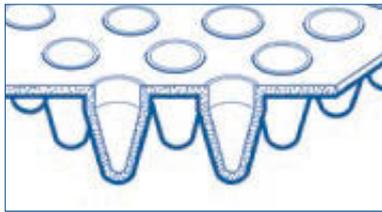
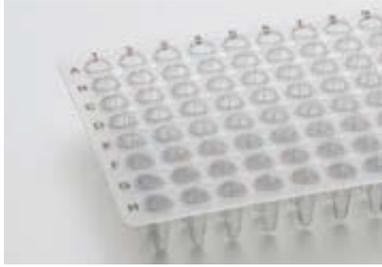


Plate Capacities:

Approximate maximum capacity for all 96-well plates is 350 µl for standard height plates, or 200 µl for low-profile plates.



Non-Skirted PCR Plates

- ▶ Low profile and standard height
- ▶ Opaque black or white available for qPCR
- ▶ Non-skirted plates for a universal fit, suitable for most thermal cyclers
- ▶ Convenient, small pack sizes
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free

Non-Skirted PCR Plates					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
Low-Profile					
96-Well PCR Plate, Non-Skirted, Low-Profile	H12	P	Natural	20	E1403-0200
96-Well PCR Plate, Non-Skirted, Low-Profile	H12	P	Black	20	E1403-0208
96-Well PCR Plate, Non-Skirted, Low-Profile	H12	P	White	20	E1403-0209
Standard Height					
24-Well-PCR-Plate, Non-Skirted			Natural	10	B1402-0625
48-Well-PCR-Plate, Non-Skirted			Natural	10	B1402-0648
Strip Caps for 24- and 48-Well-Plates					
8-Strip PCR Caps, Domed			Natural	125	B1401-4400
8-Strip PCR Caps, Flat, Pierceable			Natural	125	B1401-3300
96-Well PCR Plate, Non-Skirted	A12	P	Natural	10	E1403-1200
96-Well PCR Plate, Non-Skirted	A12	P	Natural	10 x 10	E1403-1200-C
96-Well PCR Plate, Non-Skirted	A12	P	White	10	E1403-1209
Sealing Mat					
Silicone Sealing Mat (Autoclavable)**			Natural	5	E1403-0000

* **Matrix:** P=Printed

** **NOTE:** Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 80) or the plate seals suitable for PCR/qPCR on page 93.

Cuttable PCR Plate

Standard height, non-skirted PCR plate. This plate is more pliable than the non-skirted plates listed above, and can easily be cut into any desired configuration, with normal scissors.



Non-Skirted PCR Plate (Cuttable)					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
Standard Height					
96-Well PCR Plate, Non-Skirted (Cuttable)	A12	P	Natural	10	E1403-0100
Sealing Mat					
Silicone Sealing Mat (Autoclavable)**			Natural	5	E1403-0000

* **Matrix:** P=Printed

** **NOTE:** Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 80) or the plate seals suitable for PCR/qPCR on page 93.



www.starlab.click/pcrplates



FREE SAMPLE
TRY
before you
BUY
available on request

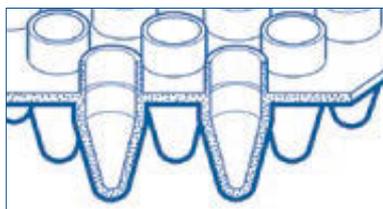


Plate Capacities:

Approximate maximum capacity for all standard height 96-well plates is 350 µl.

Non-Skirted PCR Plates with Elevated Wells

Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
96-Well PCR Plate, Non-Skirted, Elevated Wells	H12	P	Natural	10	E1403-2200
48-Well PCR Plate, Non-Skirted, Elevated Wells		P	Natural	20	E1403-3200
24-Well PCR Plate, Non-Skirted, Elevated Wells		P	Natural	40	E1403-4200

Sealing Mat

Silicone Sealing Mat (Autoclavable)**		Natural	5	E1403-0000
---------------------------------------	--	---------	---	------------

***Matrix:** P=Printed

** Please choose any of our qPCR Sealing Foils for the use of the plate inside qPCR instruments (see table on page 93).

NOTE: Sealing mat E1403-0000 is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (page 80), or the plate seals suitable for PCR (page 93). For an overview of all PCR Plate Sealing Options, see page 93.

Non-Skirted PCR Plates with Elevated Wells

Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
96-Well PCR Plate, Non-Skirted, 3 mm Elevated Wells (Robbins® Style)	A1	M	Natural	10	B1402-9200

Sealing Mat

Cap Mat for 96-Well PCR Plates (Autoclavable)**		Blue	5	B1494-1005
---	--	------	---	------------

Matrix: M=Moulded

** **NOTE:** Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 80) or the plate seals suitable for PCR/qPCR on page 93.

Semi-Skirted PCR Plates



I1402-9700



I1402-9800

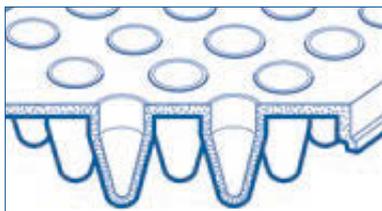
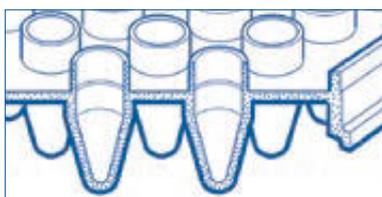
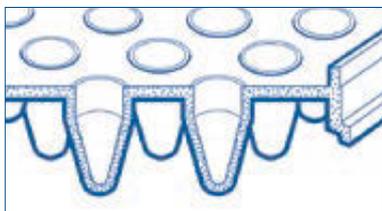


Plate Capacities:

Approximate maximum capacity for all 96-well plates is 350 µl for standard height plates, or 200 µl for low-profile plates.



E1403-7700



Semi-Skirted PCR Plates

- ▶ Low profile and standard height
- ▶ Opaque black or white available in most styles
- ▶ Specialist plates (for FAST® Systems, qPCR)
- ▶ Convenient, small pack sizes
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free
- ▶ Endotoxin-free



Semi-Skirted PCR Plates					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
Low-Profile					
96-Well PCR Plate, Semi-Skirted, Low-Profile	A12	P	Natural	10	E1403-6200
96-Well PCR Plate, Semi-Skirted, Low-Profile	A12	P	White	10	E1403-6209
Standard Height					
96-Well PCR Plate, Semi-Skirted	A12	P	Natural	10	I1402-9700
96-Well PCR Plate, Semi-Skirted	A12	P	Natural	10 x 10	I1402-9700-C
96-Well PCR Plate, Semi-Skirted	A12	P	White	10	I1402-9709
96-Well PCR Plate, Semi-Skirted, Straight Edges	A12	P	Natural	10	I1402-9800
96-Well PCR Plate, Semi-Skirted, Straight Edges, with Barcode	A12	P	Natural	10 x 10	I1402-9800-BC
96-Well PCR Plate, Semi-Skirted, Straight Edges	A12	P	White	10	I1402-9809
96-Well PCR Plate, Semi-Skirted, for Roche® Lightcycler®	H12	P	White	10	I1402-9909
Sealing Mat					
Silicone Sealing Mat (Autoclavable)**			Natural	5	E1403-0000

Semi-Skirted PCR Plates with Raised Rim					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
TAQMan®-Style Plate					
96-Well PCR Plate, Semi-Skirted, Raised Rim	A12	P	Natural	10	E1403-8200
Plate for FAST® Systems					
96-Well PCR Plate, Semi-Skirted, Raised Rim, Low Profile (for FAST® Systems)	A1	P	Natural	10	E1403-7700
96-Well PCR Plate, Semi-Skirted, Raised Rim, Low Profile (for FAST® Systems)	A1	P	White	10	E1403-7709
Sealing Mat					
Silicone Sealing Mat (Autoclavable)**		P	Natural	5	E1403-0000

Semi-Skirted Plates with Raised Rim & Elevated Wells					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
96-Well PCR Plate, Semi-Skirted, Raised Rim (3 mm Elevated Wells, Corning® Style)	A1	M	Natural	10	B1402-9300
Sealing Mat					
Cap Mat for 96-Well PCR Plates (Autoclavable)**			Blue	5	B1494-1005

* Matrix: P = Printed, M = Moulded.

** Sealing mats E1403-0000 and B1494-1005 are not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 93. All plates on this page can also be sealed with the PCR Strip Caps on p. 80.

Skirted PCR Plates



E1403-5200

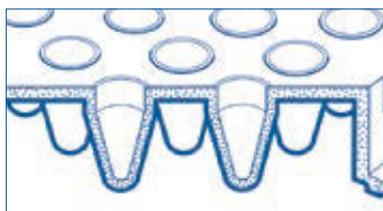
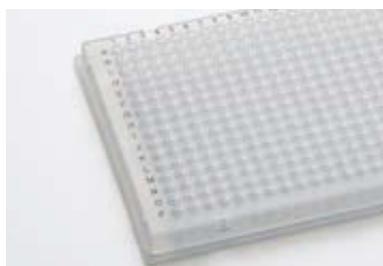
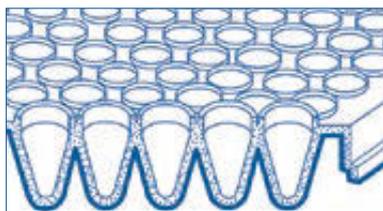


Plate Capacity:

Approximate maximum capacity for all 96-well, low-profile plates is 350 µl.



E1042-3840



96-Well Skirted PCR Plates

- ▶ Natural, opaque black or white plate available
- ▶ Holes on sides for robotics handling
- ▶ Highly-visible printed matrix
- ▶ Convenient, small pack sizes
- ▶ Autoclavable
- ▶ Certified RNase, DNase, DNA and PCR Inhibitors free
- ▶ Endotoxin-free



96-Well Skirted PCR Plates					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
Low-Profile					
96-Well PCR Plate, Skirted, Low-Profile	A12	P	Natural	10	E1403-5200
96-Well PCR Plate, Skirted, Low-Profile, with Barcode	A12	P	Natural	10 x 10	E1403-5200-BC
96-Well PCR Plate, Skirted, Low-Profile	A12	P	White	10	E1403-5209
Sealing Mat					
Silicone Sealing Mat (Autoclavable)**			Natural	5	E1403-0000

* **Matrix:** P = Printed

** Sealing mat E1403-0000 is not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 93. These plates can also be sealed with the PCR Strip Caps on page 80.

384-Well Skirted PCR Plates

- ▶ Opaque white plates available for qPCR
- ▶ Holes on sides for robotics handling
- ▶ Convenient, small pack sizes
- ▶ Autoclavable
- ▶ Certified RNase, DNase and DNA free

384-Well Skirted PCR Plates					
Description	Cut Corner	Matrix*	Colour	Pack Size	Cat. No.
384-Well PCR Plate, ABI®/Universal-Style, Skirted	A24	P	Natural	10	E1042-3840
384-Well PCR Plate, ABI®/Universal-Style, Skirted	A24	P	White	10	E1042-3849
384-Well PCR Plate for Roche® Lightcycler®, Skirted	A24, P24	P	White	10	E1042-9909
384-Well PCR Plate, Skirted (40 µl)	A1	M	Natural	10	B2323-3840
384-Well PCR Plate, Skirted (40 µl)	A1	M	Black	10	B2323-3848
384-Well PCR Plate, Skirted (35 µl)	A1	M	White	10	B2323-3849
384-Well PCR Plate, Skirted (40 µl)	A24, P24	M	Natural	10	E1042-2500
384-Well PCR Plate, Skirted (50 µl)	A24	M	Natural	10	E1042-3000
Sealing Mat					
Silicone Sealing Mat for 384-Well Plates**			Natural	10	E1042-2350

Volumes stated are approximate only. ***Matrix:** P = Printed, M = Moulded.

** Sealing mat E1042-2350 is not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 93.

PCR Plate–Cycler Compatibility



		Non-Skirted Plates					Semi-Skirted Plates					Skirted Plates									
		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Raised Rim: ✓</p> <p>Elevated Wells: ✓</p> <p>Low-Profile: ✓</p> <p>No. of Wells: 24 48 96 96 96 96 96 96 96 96 96 96 96 96 96</p> </div> <div style="width: 30%; text-align: center;"> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> </div> <div style="width: 30%; text-align: center;"> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> </div> </div>																			
		E1403-4200	E1403-3200	E1403-2200*	B1402-9200	E1403-0100	E1403-0200*	E1403-1200*	B1402-9300	E1403-6200*	E1403-7700*	E1403-8200*	I1402-9700*	I1402-9800*	I1402-9909	E1403-5200*	B2323-3840*	E1042-2500	E1042-3000	E1042-3840*	E1042-9900/9
APPLIED BIOSYSTEMS®																					
Thermal Cyclers	2700	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	
	2720 and 6100											✓									
	9600	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓							
	9700	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓				✓	✓	✓	✓
	9800 FAST										✓										
	Veriti 0.1ml										✓										
	Veriti 0.2ml											✓		✓							
Veriti 384																				✓	
Real-Time Thermal Cyclers	5700, 7300, 7500					✓		✓				✓	✓	✓							
	PRISM 7000					✓		✓				✓	✓	✓							
	7500 FAST										✓										
	7700					✓		✓				✓	✓	✓							
	7900 HT					✓		✓		✓		✓	✓						✓		
	7900 HT FAST										✓										
	7900 HT 384 Well																				✓
	Quant Studio 12K Flex																				✓
	StepOne																				
	StepOne Plus										✓										
viiA7										✓										✓	
Sequencers	PRISM 310	✓	✓	✓		✓		✓				✓	✓	✓							
	PRISM 3100	✓	✓	✓		✓		✓				✓	✓	✓					✓	✓	
	3130 (XL)	✓	✓	✓		✓		✓				✓	✓	✓					✓	✓	
	3500 (XL)										✓		✓	✓	✓					✓	✓
	3700	✓	✓	✓		✓		✓				✓	✓	✓				✓	✓	✓	✓
	PRISM 3730(XL)	✓	✓	✓		✓		✓				✓	✓	✓				✓	✓	✓	✓
AMERSHAM®																					
Sequencers	MegaBACE 500															✓					
	MegaBACE 1000	✓ ¹	✓ ¹	✓ ¹												✓					
	MegaBACE 4000																				✓
BECKMAN®																					
Sequencers	CEQ					✓		✓													
ANALYTIC JENA / BIOMETRA®																					
Thermal Cyclers	Uno	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓							
	Uno II	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓				✓	✓	✓	
	T1 Thermocycler	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓				✓	✓	✓	
	Tgradient	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓				✓	✓	✓	
	T3000 & TProfessional					✓	✓	✓	✓							✓					✓
	Trobot	✓	✓	✓		✓	✓	✓	✓				✓	✓				✓	✓	✓	✓
Real-Time	Toptical					✓	✓	✓							✓					✓	
BIO-RAD/MJ RESEARCH®																					
Thermal Cyclers	C1000/S1000					✓	✓	✓					✓		✓					✓	✓
	DNA Engine range					✓	✓	✓					✓		✓					✓	✓
	Dyad / Dyad Disciple	✓	✓	✓		✓	✓	✓					✓		✓				✓	✓	✓
	Gene Cyclor	✓	✓	✓		✓	✓	✓			✓	✓			✓						
	iCYCLER	✓	✓	✓		✓		✓	✓					✓		✓					
	Mini Gradient					✓	✓	✓													
	MyCycler	✓	✓	✓		✓		✓						✓							
	Personal					✓		✓													
	PTC-100	✓	✓	✓		✓	✓	✓	✓					✓		✓			✓	✓	
	PTC-200, PTC 225-Tetrad	✓	✓	✓		✓	✓	✓	✓					✓		✓			✓	✓	
T100					✓		✓					✓									
Real-Time Thermal Cyclers	OPTICON / OPTICON 2					✓	✓	✓							✓						
	CFX96														✓						
	CFX384																				
	CFX Connect						✓							✓		✓				✓	✓
	Chromo-4						✓								✓						
	ICycler	✓	✓	✓		✓		✓						✓		✓				✓	
Sequencer	iQ5 & MyiQ	✓	✓	✓		✓		✓					✓		✓						
	BaseStation														✓						

¹ Suitable for use on machines manufactured before July 2000 only.

FREE SAMPLE TRY
before you **BUY**
available on request



		Non-Skirted Plates						Semi-Skirted Plates						Skirted Plates							
		24	48	96	96	96	96	96	96	96	96	96	96	96	96	96	384	384	384	384	384
RAISED RIM:								✓		✓	✓										
ELEVATED WELLS:		✓	✓	✓				✓													
LOW-PROFILE:						✓			✓	✓				✓							
NO. OF WELLS:		24	48	96	96	96	96	96	96	96	96	96	96	96	96	96	384	384	384	384	384
		E1403-4200	E1403-3200	E1403-2200	B1402-9200	E1403-0100	E1403-0200*	E1403-1200*	B1402-9300	E1403-6200*	E1403-7700*	E1403-8200*	11402-9700*	11402-9800*	11402-9909	E1403-5200*	B2323-3840*	E1042-2500	E1042-3000	E1042-3840*	E1042-9500/9
CORBETT®																					
Thermal Cyclers	PalmCycler 96				✓			✓					✓		✓						
	PalmCycler 384																✓	✓	✓		
EPPENDORF®																					
Thermal Cyclers	Mastercycler	✓	✓	✓		✓	✓	✓					✓		✓						
	Mastercycler ep Gradient	✓	✓	✓	✓	✓	✓					✓	✓	✓		✓					
	Mastercycler Nexus & Nexus Eco					✓	✓	✓					✓		✓						
	Mastercycler Nexus Gradient					✓	✓	✓					✓		✓						
	Mastercycler Personal				✓																
	Mastercycler Pro					✓		✓						✓		✓				✓	
	Mastercycler M384																✓	✓	✓	✓	
Real-Time	Mastercycler ep Realplex					✓	✓			✓	✓		✓	✓							
ERICOM®																					
Thermal Cyclers	Delta Cyclers I	✓	✓	✓	✓	✓	✓						✓								
	Delta Cyclers II	✓	✓	✓	✓	✓	✓		✓		✓	✓									
	Power Block I	✓	✓	✓	✓	✓	✓		✓		✓	✓									
	Single Block & Twin Block	✓	✓	✓	✓	✓	✓						✓								
ESCO / FLEXI®																					
Thermal Cyclers	Swift	✓	✓	✓		✓	✓						✓							✓	
	Gene	✓	✓	✓		✓	✓						✓		✓			✓	✓		
	Genius	✓	✓	✓		✓	✓						✓		✓		✓	✓	✓		
G-STORM®																					
Thermal Cyclers	GS1, GS2 & GS4	✓	✓	✓		✓	✓	✓			✓	✓	✓								
	GSX & GSXs	✓	✓	✓		✓	✓	✓			✓	✓	✓								
MWG®																					
Thermal Cyclers	Primus 96	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓						
	Primus 384																✓	✓	✓		
ROCHE®																					
Real-Time	LightCycler 96													✓						✓	
	LightCycler 480													✓					✓		
STRATAGENE®																					
Thermal Cyclers	Robocycler 96					✓	✓						✓								
	Robocycler Gradient	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓						
	SureCycler 8800					✓															
Real-Time	Mx3005P & Mx4000	✓	✓	✓		✓	✓	✓			✓	✓									
TaKaRa®																					
Thermal Cyclers	TP240													✓							
	TP3000	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓						
Techne®																					
Thermal Cyclers	Cyclogene	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓								
	Genius & Genius Quad	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓		✓				
	Genius (TC412)	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓						
	Flexigene	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓					✓	
	Touchgene	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓						
	Touchgene X					✓	✓	✓			✓	✓	✓		✓			✓	✓	✓	
Real-Time	Touchgene Gradient (TC512)	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓		✓	✓	✓		
	PrimeQ						✓														
	Quantica					✓							✓								
THERMO HYBAID®																					
Thermal Cyclers	PCR Sprint	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓						
	MBS Satellite (Multiblock) System	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓		✓	✓	✓		
	Px2 & PxE	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓		✓	✓	✓		
	PCR Express	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	
	Omni-E	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	
	Touchdown & Omnigene	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓		✓	✓	✓	✓	
TRANSGENOMIC®																					
Sequencer	WAVE System														✓						

The individual cycler-plate combinations are intended as a guide only, with no guarantee. Samples of all plates are readily available before purchase so you can confirm compatibility. Low-profile* and 384-well plates are compatible with their designated thermal blocks only. STARLAB recognises that the trade names of all cyclers and sequencers in this table belong to their respective owners.

*Cat. No. of natural plate shown only. These plates are also available in opaque black and/or white and will fit the same thermal cyclers. See catalogue or website for plate ordering details.



PCR Plate-Sealing Overview

What are my options?

24- and 48-Well Plates

- ▶ 8-Strip Caps

96-Well Plates

- ▶ 8-Strip Caps
- ▶ 12-Strip Caps
- ▶ Sealing Mats for 96-Well Plates
- ▶ Plate Seals (unless plate has raised wells)

384-Well Plates

- ▶ Sealing Mats for 384-Well Plates
- ▶ Plate Seals

8- and 12-Strip Caps

8- and 12-strip caps are manufactured from pure polypropylene, are available flat or domed, and are suitable for use with all 96-well PCR plates. (8-strip caps only can be used on 24- and 48-well plates).



Strip caps allow the convenience of unsealing one row of plate wells at a time. Flat caps enable labelling while domed caps provide the most secure seal when using thermal cyclers with a screw down lid. The 'Perfect Seal'

strip caps give easier attachment to plates without affecting the tightness. Use the flat, 'X-Clear' strip caps in Real-Time (qPCR) applications as these exceptionally clear caps allow the fluorescence signal to pass through.

For ordering details, see page 80.

Sealing Mats

Particularly suitable for sealing plates with defined heated-lid contact pressure, silicone mats are very flexible, autoclavable and reusable.



The mats can also be cut to meet individual needs. Some mats are pierceable to allow access to the sample. Sealing mats are not suitable for Real-Time applications.

For best results, we recommend using only the dedicated mat for your plate. The recommended sealing mat is listed in the ordering table under each plate on pages 84–87.

Sealing Films & Foils Self-Adhesive

Three self-adhesive seals offered by STARLAB are suitable for standard PCR (aluminium, clear polypropylene and clear polyolefin).

The Xtra-Clear Advanced Polyolefin Seal is suitable for Real-Time PCR and the seal's superior optical clarity yields consistent results. **For an optimum and consistent seal across the whole plate, use the seal applicator or sealing brayer on page 93.**



Heat Seals

All heat seals offered by STARLAB are suitable for PCR; one of them has superior optical clarity and is suitable for Real-Time PCR.

See page 93 for each seal's specifications and ordering details.

Important Note for Real-Time PCR (qPCR)

Please check that both the plate AND the sealing option are suitable for Real-Time PCR applications.

Plates: See the Plate-Cycler Compatibility chart on pages 88–89 to see which plate is suitable for your Real-Time Cycler.

Strip Caps: Use only the 'Xtra-Clear' strip caps on your plates for Real-Time PCR applications.

Plate Seals: Only those seals with superior optical clarity can be used for Real-Time applications. Choose between a self-adhesive seal or a heat seal – see page 93 for details.

NOTE: Sealing mats are NOT suitable for Real-Time.

PlateOne® Deepwell Plates

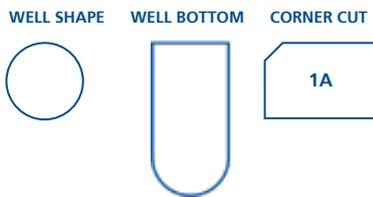


Features

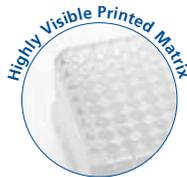
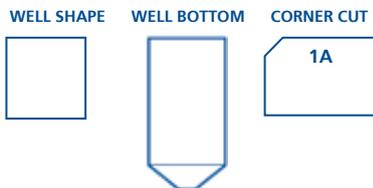
- ▶ Virgin polypropylene
- ▶ Highly visible, printed matrix
- ▶ SBS footprint
- ▶ Barcoded plates available on request
- ▶ Temperature use: -80°C to 121°C
- ▶ Autoclavable
- ▶ Certified RNase, DNase and DNA free
- ▶ Sterile plates are also pyrogen free

PlateOne

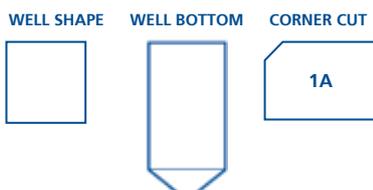
0.5 ml & 1.0 ml PlateOne Deepwell Plates



2.0 ml PlateOne Deepwell Plate



200 µl PlateOne Deepwell Plate



96 Deepwell Plates

Description	Pack Size	Cat. No.
0.5 ml, Round Wells, Round Bottom		
0.5 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms	4 x 8	S1896-5800
0.5 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms (Bulk)	32	S1896-5000
0.5 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms (Sterile), Individually Wrapped	32	S1896-5110
DMSO Resistant Polyolefin Sealing Mat for 96-Well with Round Wells	24	B1494-1224
1.0 ml, Round Wells, Round Bottom		
1.0 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms	4 x 5	S1896-1800
1.0 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms (Bulk)	20	S1896-1000
1.0 ml PlateOne® 96 Deepwell Plate, Round Wells with Round Bottoms (Sterile), Individually Wrapped	20	S1896-1110
DMSO Resistant Polyolefin Sealing Mat for 96-Well with Round Wells	24	B1494-1224
2.0 ml, Square Wells, V-Shaped Bottom		
2.0 ml PlateOne® 96 Deepwell Plate, Square Wells with V-Shape Bottoms	4 x 5	S1896-2800
2.0 ml PlateOne® 96 Deepwell Plate, Square Wells with V-Shape Bottoms (Bulk)	20	S1896-2000
2.0 ml PlateOne® 96 Deepwell Plate, Square Wells with V-Shape Bottoms (Sterile), Individually Wrapped	20	S1896-2110
DMSO Resistant Polyolefin Sealing Mat for 96-Well with Square Wells	24	B1494-1124
Piercable Sealing Mat for 96-Well with Square Wells	5	E2896-1801

Plate dimensions (WxDxH): 0.5 ml: 127.8 x 85.5 x 27.10 mm. 1.0 & 2 ml: 127.8 x 85.5 x 44.10 mm.
All PlateOne® Plates can be sealed with the designated Sealing Mats listed, or with the Plate Seals on page 93.

384 Deepwell Plates

Description	Pack Size	Cat. No.
200 µl, Square Wells, V-Shaped Bottom		
200 µl PlateOne® 384 Deepwell Plate, Square Wells with V-Shape Bottoms	4 x 10	S1884-2400
200 µl PlateOne® 384 Deepwell Plate, Square Wells with V-Shape Bottoms (Bulk)	40	S1884-2000
200 µl PlateOne® 384 Deepwell Plate, Square Wells with V-Shape Bottoms (Sterile), Individually Wrapped	40	S1884-2410
Autoclavable, DMSO Resistant Sealing Mat for 384-Well Plates with Square Wells, Blue	24	B1494-1024

Plate dimensions (WxDxH): 127.8 x 85.5 x 25.10 mm.
All PlateOne® Plates can be sealed with the designated Sealing Mats listed, or with the Plate Seals on page 93.

PlateOne® Microplates

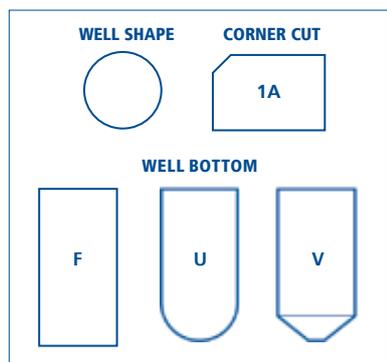


Well-bottom shape indicator code on every plate for easy identification

PlateOne® Microplates are available in three styles, all with a highly-visible solvent-resistant, alpha-numeric matrix. These high-clarity polypropylene plates offer excellent sample recovery compared to polystyrene plates. All plates conform to the SBS standard for compatibility with your automated equipment.

Features

- ▶ Virgin polypropylene plates for reduced sample binding compared to polystyrene plates
- ▶ High chemical resistance
- ▶ Raised wells help prevent cross contamination (96-well plates)
- ▶ Highly visible printed, alpha-numeric matrix
- ▶ SBS footprint
- ▶ Certified RNase, DNase and DNA free
- ▶ Sterile plates are also Pyrogen free



96-Well Microplates		
Description	Pack Size	Cat. No.
Flat Bottom (F) Plates, max. Working Volume 370 µl		
PlateOne® 96-Well Microplate, Round Wells with Flat Bottoms,	4 x 20	S1837-9600
PlateOne® 96-Well Microplate, Round Wells with Flat Bottoms (Sterile)	4 x 20	S1837-9610
Round Bottom (U) Plates, max. Working Volume 320 µl		
PlateOne® 96-Well Microplate, Round Wells with Round Bottoms	4 x 20	S1830-9600
PlateOne® 96-Well Microplate, Round Wells with Round Bottoms (Sterile)	4 x 20	S1830-9610
Conical Bottom (V) Plates, max. Working Volume 320 µl		
PlateOne® 96-Well Microplate, Round Wells with Conical Bottoms	4 x 20	S1833-9600
PlateOne® 96-Well Microplate, Round Wells with Conical Bottoms (Sterile)	4 x 20	S1833-9610
Sealing Mat		
DMSO Resistant Polyolefin Sealing Mat for 96-Well with Round Wells	24	B1494-1224

Plate dimensions: (WxDxH): 127.8 x 85.5 x 14.35 mm

All PlateOne® can be sealed with the designated Sealing Mat listed, or with the Plate Seals on page 93.

 www.starlab.click/microplates

Sealing Films & Foils

	SELF-ADHESIVE							HEAT SEALING			
	PCR			OTHER APPLICATIONS				PCR			
	Alu-minium StarSeal (PCR)	Clear Poly-olefin StarSeal (PCR)	Xtra-Clear Advanced Polyolefin StarSeal (qPCR) ¹	Polyester Seal	Polyester Seal (Sterile)	Breath-able Film	Breath-able Film (Sterile)	Peelable Film (PCR)	Thermo Seal Film (PCR)	Easy Pierce Film (PCR)	Optically Clear Film (qPCR)
Pack Size:	100	100	100	100	100	100	2 x 25	100	100	100	100
Cat. No.:	E2796-9792	E2796-9793	E2796-9795	E2796-0794	E2796-0714	E2796-3005	E2796-3015	E2796-3060	E2796-3070	E2796-3090	E2796-3020
Colour	Silver	Clear	Clear	Clear	Clear	Natural	Natural	White	Silver	Silver	Clear
Opaque	✓						✓	✓	✓	✓	
Optically Clear		✓	✓	✓	✓						✓
Superior Optical Clarity											✓
Suitable for PCR	✓	✓	✓					✓	✓	✓	✓
Certified free of RNase, DNase, DNA and Pyrogens											
Suitable for Real-Time PCR (qPCR)			✓								✓
Short-Term Storage and Incubation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Easy to Pierce with Needle or Metal Probe	✓								✓	✓	
Easy to Pierce with Pipette Tip	✓								✓	✓	
Low 'Tack to Touch' Adhesive			✓								
Low Auto-Fluorescence		✓	✓								
Resistant to DMSO	✓	✓	✓					✓	✓	✓	✓
Sterile					✓		✓				
Breathable						✓	✓				
Gas Permeable						✓	✓				
Plate type compatibility*	PP, PS, PC	PP, PS, PC	PP, PS, PC	PP, PS	PP, PS	PP, PS	PP, PS	PP, PE	PP	PP, PE	PP, PS, PE
Minimum Temp. Use	-70 °C**	-70 °C**	-70 °C**	-40 °C	-40 °C	4 °C	4 °C	-196 °C	-80 °C	-80 °C	-80 °C
Maximum Temp. Use	110 °C	110 °C	110 °C	65 °C	65 °C	40 °C	40 °C	90 °C	120 °C	80 °C	120 °C

*PP = Polypropylene; PS = Polystyrene, PC = Polycarbonate; PE = Polyethylene

**StarSeals have a minimum temperature use specification of -70 °C but they can be used at -80 °C for short-term storage.

¹ Xtra-Clear Advanced Polyolefin StarSeal E2796-9795 has a low tack-to-touch adhesive. This means that it does not feel sticky when handled, making it easier to handle so the seal sticks to your plate, not your gloves. The adhesive is pressure-sensitive, so it is only once you have correctly positioned the seal on the plate and you then apply pressure that the seal adheres to the plate. Once bonded, the seal strength is unbeatable.

See the STARLAB website for copy of the Data Sheet detailing the seal's outstanding performance during qPCR against another leading brand.

Sealing Accessories



Seal Applicator

Polyethylene applicator for use with self-adhesive plate seals
12928-7355 Pack of 5



Sealing Brayer

Soft rubber roller for use with self-adhesive plate seals
E9127-2940

Parafilm® Sealing Film

Colourless and moisture proof!

A colourless and moisture proof film that moulds to the surface. Stretch film tight to seal beakers, flasks, tubes and petri dishes. Suitable for use in temperatures -45 °C to 50 °C.

Parafilm®		
Description	Pack Size	Cat. No.
Parafilm® Sealing Film, 50 mm Wide x 75 m Long	1 Roll	I3080-5075
Parafilm® Sealing Film, 100 mm Wide x 38 m Long	1 Roll	I3080-1038
Parafilm® Sealing Film, 100 mm Wide x 75 m Long	1 Roll	I3080-1075



Reagent Reservoirs



ChannelMate™ Reservoirs

Reagent reservoir refills save both waste and storage space. ChannelMate™ combines a sturdy reusable base with ultra-clear inserts to create a unique refillable reservoir system. RNase, DNase and pyrogen free. Sterile.

Features

- ▶ Non-tipping, durable base features high-contrast volume graduations
- ▶ Skirtless polystyrene inserts require up to 40% less plastic and create minimal waste
- ▶ Nested inserts save up to 65% of the storage space required with other reservoirs
- ▶ Two systems: 25 ml & 100 ml (bases and inserts can be purchased separately)

ChannelMate™		
Description	Pack Size	Cat. No.
ChannelMate™ 25 ml System		
ChannelMate™ Reservoir System, 25 ml (Sterile)	200*	E1306-2510
ChannelMate™ Insert, 25 ml (Sterile)	50	E1346-2510
ChannelMate™ Base, 25 ml	10	E1306-2590
ChannelMate™ 100 ml System		
ChannelMate™ Reservoir System, 100 ml (Sterile)	200*	E1306-1010
ChannelMate™ Insert, 100 ml (Sterile)	50	E1346-1010
ChannelMate™ Base, 100 ml	10	E1306-1090

*1 pack contains 1 base plus 200 inserts

Reagent Reservoirs



StarTub PP

These high quality reagent reservoirs are made from autoclavable polypropylene (PP) so they can be reused again and again.

Features

- ▶ Sturdy polypropylene
- ▶ V-shaped bottom
- ▶ Autoclavable
- ▶ For multiple use
- ▶ Capacity: 50 ml to 60 ml

Reusable Reservoir		
Description	Pack Size	Cat. No.
StarTub Reagent Reservoir (PP)	10	S4026-5806



StarTub PVC

- ▶ Clear PVC reservoir
- ▶ V-shaped bottom
- ▶ For single use
- ▶ Capacity: 55 ml

Disposable PVC Reservoir		
Description	Pack Size	Cat. No.
StarTub Reagent Reservoir (PVC)	100	E2310-1000



StarTub PS

- ▶ White polystyrene (PS) reservoir
- ▶ Sterile, Individually wrapped
- ▶ For single use
- ▶ Capacity: 55 ml

Disposable PS Reservoir (Sterile)		
Description	Pack Size	Cat. No.
StarTub Reagent Reservoir (PS), (Sterile), Individually Wrapped, 25 ml	50	E2310-1025
StarTub Reagent Reservoir (PS), (Sterile), Individually Wrapped, 55 ml	50	E2310-1010
StarTub Reagent Reservoir (PS), (Sterile), Individually Wrapped, 100 ml	50	E2310-1100



CAPP® Origami Reservoirs

Made from durable polypropylene, these reservoirs are shipped and stored flat, ready to be flicked into shape. They are designed to the exact thickness to ensure that the reservoir remains standing once it has been folded into shape.

Features

- ▶ V-shaped bottom helps prevent bubbles forming in the pipette tips and also helps to avoid waste as more accurate amounts of reagent can be used
- ▶ Two capacities: 30 ml and 40 ml

CAPP® Origami Reservoirs		
Description	Pack Size	Cat. No.
CAPP® Origami Reagent Reservoir, 30 ml	50	E2310-0505
CAPP® Origami Reagent Reservoir, 40 ml	50	E2310-0510

Laboratory Labels

StarTags: One label you'll want to stick with!

Pre-cut labels that will accept any form of marker pen and will stick permanently in most conditions. StarTags are suitable for use in the freezer, centrifuge, waterbath, thermal cycler, shaker or vortexer. Laser sheets are available in some options, allowing you to print out large numbers of labels which is both time saving and convenient.



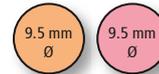
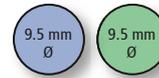
Features

- ▶ Suitable for autoclaving, boiling and freezing down to -85 °C
- ▶ StarTags Cryo can be used down to -196 °C
- ▶ Sticks permanently to all forms of tubes, plates, vials and bottles
- ▶ Leaves no sticky residue once removed

All labels shown actual size

SPOTS for the tops of tube caps

for 1.5/2.0 ml tubes

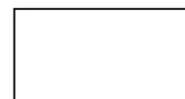


LARGE for 1.5 ml/2.0 ml tubes



32.5 x 12.5 mm

MEDIUM for 0.5 ml/0.65 ml tubes



24 x 12.5 mm

SMALL for 0.2 ml tubes



20 x 6 mm

StarTags CRYO for use down to -196 °C



38 x 15 mm

StarTags Laboratory Labels

Description	Colour	Pack Type	Labels per Pack	Cat. No.
9.5 mm diam. Spots	Blue	Roll	2000	E9185-0001
9.5 mm diam. Spots	Green	Roll	2000	E9185-0002
9.5 mm diam. Spots	Orange	Roll	2000	E9185-0003
9.5 mm diam. Spots	Red	Roll	2000	E9185-0004
9.5 mm diam. Spots	Yellow	Roll	2000	E9185-0006
9.5 mm diam. Spots	White	Roll	2000	E9185-0009
Large (32.5 x 12.5 mm)	White	Roll	1000	E9187-1009
Large (32.5 x 12.5 mm)	White	A4 Laser Sheets	1980	E9187-2016
Medium (24 x 12.5 mm)	White	Roll	1000	E9188-1009
Medium (24 x 12.5 mm)	White	A4 Laser Sheets	2016	E9185-2240
Small (20 x 6.0 mm)	White	Roll	1000	E9188-8699

StarTags Cryo

StarTags Cryo (38 x 15 mm)	White	Roll	1000	E9189-3009
----------------------------	-------	------	------	------------

NOTE: Labels must be applied to dry, unfrozen samples at room temperature. StarTags are not suitable for use with low-retention/siliconised tubes. A4 Laser Sheets are supplied with set-up instructions for MS Word and can also be downloaded from the STARLAB website. Sheet labels are only suitable for use with laser printers and can not be used with bubble jet printers.

Blue acrylic dispenser that holds up to seven boxes of StarTags. Rubber feet on base prevents slipping.



StarTags Dispenser

Description	Pack Size	Cat. No.
StarTags Acrylic Dispenser	1	E9199-0000

Fine Point Pen

Label Size / Dimensions	Cat. No.
Fine Point Pen for use with all StarTags	E9186-9987

Laboratory ID Tape



Dispense with disorganisation!

Organise and identify your samples more easily by colour-coding with STARLAB ID Tape. There's plenty to choose from with two different lengths of tape in three different widths, and all in eight different colours.

Dispenser Features

- ▶ Custom-made acrylic dispenser which holds both lengths of tape
- ▶ Suction feet ensure the dispenser stays firmly on the bench, even when using one hand to dispense the tape
- ▶ Core inserts for 55 m long tape available separately

ID Tape Dispenser	
Description	Cat. No.
ID Tape Dispenser (Pack comprises 1 Dispenser & 5 Core Inserts)	E9026-0000
ID Tape Core Inserts, Pack of 5 (For use with 55 m long tapes)	E9026-2005

Dispenser dimensions (WxDxH): 205 x 185 x 125 mm.

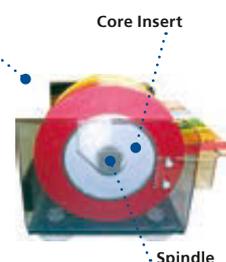
12.7 m Tape

The internal aperture of these smaller rolls fit on the spindle of the dispenser without the need for a 'Core Insert'



55 m Tape

These are larger and thus have a much bigger internal aperture than the 12.7 m rolls so they need a 'Core Insert' pushed into the tape's internal aperture in order to hold the rolls on the spindle in the dispenser



ID Tape Features

- ▶ Suitable for use in the freezer, the fridge, the incubator and in the autoclave (-20 °C to 121 °C)
- ▶ Use on glass, plastic, metal, paper, rubber and any other dry surface
- ▶ Oil, water and acid resistant
- ▶ Paper-based tape that can be written on with pen, pencil or Lab Marker
- ▶ Leaves no adhesive residue when removed
- ▶ Available in individual rolls or in economical multi-packs of eight (one of each colour)



		Individual Rolls								8-Pack
Tape Length	Tape Width	Blue	Green	Orange	Red	Violet	Yellow	Pink	White	Mixed**
12.7 m	12.7 mm	E9127-1271	E9127-1272	E9127-1273	E9127-1274	E9127-1275	E9127-1276	E9127-1270	E9127-1279	E9127-1278
	19.0 mm	E9127-1911	E9127-1912	E9127-1913	E9127-1914	E9127-1915	E9127-1916	E9127-1910	E9127-1919	E9127-1918
	25.4 mm	E9127-2501	E9127-2502	E9127-2503	E9127-2504	E9127-2505	E9127-2506	E9127-2500	E9127-2509	E9127-2508
55 m*	12.7 mm	E9055-1271	E9055-1272	E9055-1273	E9055-1274	E9055-1275	E9055-1276	E9055-1270	E9055-1279	E9055-1278
	19.0 mm	E9055-1911	E9055-1912	E9055-1913	E9055-1914	E9055-1915	E9055-1916	E9055-1910	E9055-1919	E9055-1918
	25.4 mm	E9055-2501	E9055-2502	E9055-2503	E9055-2504	E9055-2505	E9055-2506	E9055-2500	E9055-2509	E9055-2508

*55 m long tape requires a core insert for use in the STARLAB dispenser.

**Mixed packs contain one of each colour.

BMP™ 21-LAB Label Printer

Faster labelling!

Simple to operate and quick to print, the BMP™ 21-LAB label printer is an economical, must-have labelling tool especially designed for laboratory usage. With this thermal transfer printer you can create your labels just once – knowing they'll stay stuck and stay legible.



Labelling

Features

- ▶ Smudge-resistant thermal transfer printing
- ▶ Preprogrammed vial sizes (0.6; 1.5; 2.0; 15; 50 ml)
- ▶ Time/date stamp
- ▶ 44 symbols including greek letters and lab-specific 3-line, safety signs
- ▶ Barcoding
- ▶ Automated data serialisation (including multiple copy and increment options)
- ▶ Font options: six sizes (6, 9, 14, 20, 28 & 40pt) plus auto sizing, and bold
- ▶ Ergonomic cutter on both sides which holds the label until you need it
- ▶ Internal memory for storing, retrieving and deleting label files
- ▶ Quick and easy cartridge loading
- ▶ Six languages
- ▶ Different label materials are available (Vinyl, Polyester, Polypropylene and Nylon)
- ▶ Backlit LCD display
- ▶ Automatic shut-off saves batteries

Printer Specifications	
Print Method	Thermal Transfer (Durable. Non-Smearing)
Display	LCD
Max. Label Width	19 mm
Max. Print Width	16 mm
Print resolution (dpi)	203
Barcoding	Yes. 1D (Linear, on 19.1 mm labels only)
Keyboard	ABC
Memory	Stores 12 files
Power Source	6 x AA Batteries (not incl.) or AC (optional adaptor)
Agency Approval	Printer: FCC Class B Approved Labels: UL and CSA Approved
Weight	0.75 kg
Dimensions	125 x 50 x 235 mm



Easy to load cartridge.
Just drop, lock and go!



BMP™ 21-LAB Label Printer

Description	Cat. No.
BMP™ 21-LAB Label Printer	N3000-2000
AC Adaptor (optional)	N3000-2002

The printer is supplied with a 19.1 mm B-7425 Polypropylene label cartridge (N7519-7425) ready installed. BMP™ 21-LAB is designed for portability and runs on 6 x AA batteries (not included). Mains electricity can also be used with the optional AC Adaptor available separately.



www.starlab.click/labelprinter

Label Cartridges for BMP™ 21 Printer Series

Label Cartridges*				Label Applications								
Description	Colour	Label Width	Cat. No.	Freezer (-80 °C)	Liquid Nitrogen (-196 °C)	Auto-clave (121 °C)	Hot Water Baths (100 °C)	Low-Profile (extremely thin)	Vial Labelling	Slide Labelling	Plate Labelling	General Labelling
B-595 Vinyl	Blue	9.5 mm	N3795-4391	✓							✓	✓
B-595 Vinyl	Green	9.5 mm	N3795-4392	✓							✓	✓
B-595 Vinyl	Orange	9.5 mm	N3795-4393	✓							✓	✓
B-595 Vinyl	Red	9.5 mm	N3795-4394	✓							✓	✓
B-595 Vinyl	Yellow	9.5 mm	N3795-4396	✓							✓	✓
B-595 Vinyl	White	9.5 mm	N3795-4399	✓							✓	✓
B-461 Polyester ¹	White	9.5 mm	N3795-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	9.5 mm	N3795-4889	✓		✓				✓	✓	✓
B-499 Nylon	White	9.5 mm	N3795-4999	✓	✓	✓				✓	✓	✓
B-7425 Polypropylene	White	9.5 mm	N3795-7425	✓	✓	✓	✓		✓	✓	✓	✓
B-461 Polyester ¹	White	12.7 mm	N5127-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	12.7 mm	N5127-4889	✓		✓				✓	✓	✓
B-499 Nylon	White	12.7 mm	N5127-4999	✓	✓	✓				✓	✓	✓
B-7425 Polypropylene	White	12.7 mm	N5127-7425	✓	✓	✓	✓		✓	✓	✓	✓
B-461 Polyester ¹	White	19.1 mm	N7519-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	19.1 mm	N7519-4889	✓		✓				✓	✓	✓
B-499 Nylon ¹	White	19.1 mm	N7519-4999	✓	✓	✓				✓	✓	✓
B-7425 Polypropylene	White	19.1 mm	N7519-7425	✓	✓	✓	✓		✓	✓	✓	✓

* Suitable for the following label printers: BMP™ 21-LAB, BMP™ 21 Plus, BMP™ 21

¹ B-461 is acceptable for use in liquid nitrogen only if the ends of the label overlap. All labels 6.4 m long, except N7519-4999 which is 4.8 m long.



Coloured labels (B-595) for general labelling

Label Material Specifications	
B-461 Polyester	Very low profile to prevent vials jamming in centrifuge or racks. Good solvent resistance. Stays put in the harshest conditions. Uses: • Liquid nitrogen (-196°C) • Freezer (-80°C) • Hot water bath (100°C) • Autoclave (121°C)
B-499 Nylon	Ideal for general purpose labelling, the permanent adhesive and thicker construction makes this material durable yet easy to handle. Uses: • Liquid nitrogen (-196°C) (not on glass) • Freezer (-80°C) • Autoclave (121°C)
B-488 Polyester	With permanent adhesion, outstanding chemical resistance and write-on capabilities, this material performs in the very harshest lab environments. Uses: • Freezer (-80°C) • Autoclave (121°C)
B-7425 Polypropylene	Resistant to extremely low and high temperatures, withstand even the transfer from liquid nitrogen to boiling water. Uses: • Liquid-Nitrogen (-196°C) • Freezer (-80°C) • Hot water bath (100°C) • Autoclave (121°C)
B-595 Vinyl	Durable and flexible vinyl film with permanent acrylic pressure-sensitive adhesive that can be applied at cold temperatures (down to -18 °C). Uses: • Freezer (-40 °C)

Label Cartridges for LabPal™ & LabXpert™

Label cartridges for LabPal™ printer

LabPal™ Label Cartridges				Label Applications								
Description	Colour	Label Width	Cat. No.	Freezer (-80 °C)	Liquid Nitrogen (-196 °C)	Auto-clave (121°C)	Hot Water Baths (100°C)	Low-Profile (extremely thin)	Vial Labeling	Slide Labeling	Plate Labeling	General Labelling
B-595 Vinyl	Blue	9.5 mm	N3795-4391	✓							✓	✓
B-595 Vinyl	Green	9.5 mm	N3795-4392	✓							✓	✓
B-595 Vinyl	Orange	9.5 mm	N3795-4393	✓							✓	✓
B-595 Vinyl	Red	9.5 mm	N3795-4394	✓							✓	✓
B-595 Vinyl	Yellow	9.5 mm	N3795-4396	✓							✓	✓
B-595 Vinyl	White	9.5 mm	N3795-4399	✓							✓	✓
B-461 Polyester ¹	White	9.5 mm	N3795-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	9.5 mm	N3795-4889	✓		✓				✓	✓	✓
B-499 Nylon	White	9.5 mm	N3795-4999	✓	✓	✓				✓	✓	✓
B-7425 Polypropylene	White	9.5 mm	N3795-7425	✓	✓	✓	✓		✓	✓	✓	✓
B-461 Polyester ¹	White	12.7 mm	N5127-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	12.7 mm	N5127-4889	✓		✓				✓	✓	✓
B-499 Nylon	White	12.7 mm	N5127-4999	✓	✓	✓				✓	✓	✓
B-7425 Polypropylene	White	12.7 mm	N5127-7425	✓	✓	✓	✓		✓	✓	✓	✓
B-461 Polyester ¹	White	19.1 mm	N7519-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	19.1 mm	N7519-4889	✓		✓				✓	✓	✓
B-7425 Polypropylene	White	19.1 mm	N7519-7425	✓	✓	✓	✓		✓	✓	✓	✓

¹ B-461 is acceptable for use in liquid nitrogen only if the ends of the label overlap. All labels are 6.4 m long.

Label cartridges for LabXpert™ printer

LabXpert™ Label Cartridges								For Use With								
Label Style	Label Material	Label Type	Colour	Labels per Cartridge	Label Dimensions (mm)			Cat. No.	0.2 ml Tubes	0.5 / 0.65 ml Tubes	1.5/2.0 ml Tubes	1-8 ml Tubes	15 ml Tubes	50 ml Tubes	Plates	Slides
					A	B	C									
1	B-461 Polyester ¹	Long Tail	White	500	4.75	38.10	17.78	N0108-4619	✓							
1	B-461 Polyester ¹	Long Tail	White	225	12.70	44.45	19.05	N0072-4619		✓						
1	B-461 Polyester ¹	Long Tail	White	175	12.70	55.88	19.05	N0074-4619			✓	✓				
1	B-461 Polyester ¹	Long Tail	White	150	15.24	66.68	25.40	N0086-4619			✓	✓				
2	B-499 Nylon	Free Standing	White	350	25.40	9.53	9.53	N0118-4999		✓	✓	✓				
2	B-499 Nylon	Free Standing	White	300	25.40	12.70	11.18	N0117-4999			✓	✓				
3	B-499 Nylon	Free Standing	White	300	9.53			N0082-4999			✓					
3	B-499 Nylon	Free Standing	Orange	300	9.53			N0082-4993			✓					
3	B-499 Nylon	Free Standing	Yellow	300	9.53			N0082-4996			✓					
4	B-461 Polyester ¹	Long/Short Tail*	White	100	38.10	95.25	31.75	N0119-4619					✓	✓		
4	B-461 Polyester ¹	Free Standing	White	200	48.26	6.35		N0081-4889							✓	
5	B-461 Polyester ¹	Free Standing	White	400	22.86	22.86		N0097-4889								✓

¹ B-461: Label must overlap for use in liquid nitrogen. * Long Tail for 15ml Tubes / Short Tail for 50 ml Tubes.

Label Styles for LabXpert™



Cell Culture

Your cells deserve the best!

With CytoOne® we offer a broad range of high performance cell culture consumables including patented filtration systems for fast and safe media sterilization.



CELL CULTURE

CytoOne® Overview 104

CELL CULTURE DISHES

CytoOne® Dishes..... 105

CELL CULTURE PLATES

CytoOne® Multiwell Plates 106–107

CELL CULTURE FLASKS

CytoOne® Flasks
with Two-Position Plug Seal Caps 108

CytoOne® Flasks
with Vented Filter Caps 109

CELL CULTURE FILTRATION

CytoOne® Bottle Top Filtration Units..... 110–111

CytoOne® Centrifuge Tube
Filtration System..... 112–113

Syringe Filters 114

CELL CULTURE SCRAPERS

CytoOne® Cell Scrapers 115

CytoOne® – for optimum cell growth and handling



Cell culture performance ware – your cells deserve the best!

CytoOne® offers certified testing and consistent surfaces made from optically clear, premium grade polystyrene.

CytoOne® also offers convenience with features like grippers on dishes and plates for secure handling, easy-open resealable packaging on flasks, and complete 360° chimney wells on plates to prevent cross contamination.

CytoOne® is available for adherent and suspension cells grown in dishes, flasks or plates. Outfit your cells with CytoOne® cell culture performance ware for optimum growth and handling.

The CytoOne® Filtration Systems are perfect for fast and contamination-free sterile filtration of cell culture media.



CytoOne® testing and quality assurance

CytoOne® flasks, dishes, and plates are gamma sterilised and certified free of detectable RNase, DNase, DNA and Pyrogen free. CytoOne® is produced in a cleanroom environment.



CytoOne® products are put through stringent testing:

- ▶ Culture tests are performed to assure proper cell attachment and growth
- ▶ Every flask is pressure tested for leak-free assurance
- ▶ Flasks, plates and dishes are tested for wettability and flatness, and visually inspected to eliminate defects and scratches

Outfit your cells for true performance with CytoOne®.

STARLAB Quality

Trust is good – certification is better!

As an ISO 9001 and 14001 certified company, working procedures and processes at STARLAB are checked and audited regularly and the quality of our products is continuously monitored.



 www.starlab.click/cytoone

CytoOne® Dishes

Secure handling

Available with tissue culture treatment for optimum cell attachment and growth or non-treated for suspension cultures. Bevelled outer edges on the 35 mm and 60 mm dish bases make these small dishes easier to handle without accidentally displacing the lids, even when stacking. The lids of the 150 mm dishes have four ergonomically placed grip tags for secure handling with less strain.

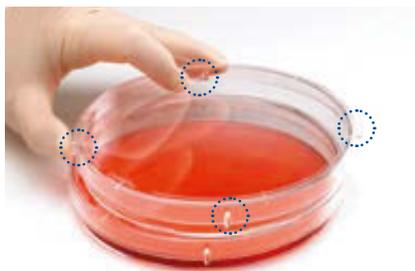
Product features

- ▶ Sturdy, flat bases resist bowing and warping
- ▶ Optical clarity provides distortion-free microscopy
- ▶ Stacking rings with vented design for thermal equalisation
- ▶ Vented lids improve gas exchange
- ▶ All CytoOne® dishes have untreated lids to minimise condensation
- ▶ Easy to open sleeves in convenient, small pack sizes
- ▶ Gamma sterilised
- ▶ Certified RNase, DNase, DNA and pyrogen free



CytoOne® Dishes		
Description	Pack Size	Cat. No.
TC Treated		
35 x 10 mm CytoOne® Dish, TC-Treated	10 x 30	CC7682-3340
60 x 15 mm CytoOne® Dish, TC-Treated	10 x 30	CC7682-3359
100 x 20 mm CytoOne® Dish, TC-Treated	10 x 30	CC7682-3394
150 x 20 mm CytoOne® Dish, TC-Treated	5 x 12	CC7682-3614
Non-Treated		
35 x 10 mm CytoOne® Dish, Non-Treated	10 x 30	CC7672-3340
60 x 15 mm CytoOne® Dish, Non-Treated	10 x 30	CC7672-3359
100 x 20 mm CytoOne® Dish, Non-Treated	10 x 30	CC7672-3394
150 x 20 mm CytoOne® Dish, Non-Treated	5 x 12	CC7672-3614

Specifications			
Outer Dimensions x Height	Growth area	Inner dimension	Working volume
35 x 10 mm	9.6 cm ²	35 mm	2.0 ml
60 x 15 mm	21 cm ²	52 mm	5.0 ml
100 x 20 mm	55 cm ²	85 mm	10 ml
150 x 20 mm	149 cm ²	138 mm	30 ml



The lids of the 150 mm dishes have four ergonomically placed grip tags (circled above) for secure handling with less strain



Bevelled base on the 35 mm and 60 mm dishes makes it easier to manipulate stacks of small dishes

CytoOne® Multiwell Plates



Chimney wells! CytoOne® plates have wells with 360° clearance to prevent cross-contamination and provide uniform temperature transfer across all wells. They also feature vented skirts with ridged gripping areas for easier handling

Premium plates

Choose tissue culture treated plates for optimum cell attachment and growth or non-treated for suspension cultures. The non-reversible lids have condensation rings to minimise contamination and are vented to improve gas exchange. Lids also feature support tabs that minimise surface contact when set aside or propped open and a frosted writing surface at one end for labelling.

All plates are manufactured from crystal clear premium grade, nontoxic virgin polystyrene and are supplied individually wrapped with the lot number on the packaging.

Product features

- ▶ Complete 360° chimney wells prevent cross contamination and provide uniform temperature transfer across all wells
- ▶ Gripping areas on plate bases for secure handling
- ▶ Vented skirt reduces condensation and surface tension between stacked plates
- ▶ Moulded alpha-numeric matrix
- ▶ Optical clarity provides distortion-free microscopy
- ▶ Certified RNase, DNase, DNA and Pyrogen free
- ▶ Gamma sterilised and individually-wrapped
- ▶ Suitable for both single-cell isolation work and upscaling

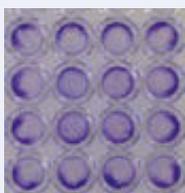


www.starlab.click/multiwellplates

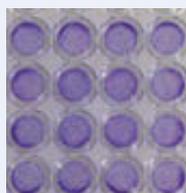
Minimising the 'edge effect' with CytoOne®

CytoOne® plates have chimney wells with a complete 360° open channel around each well. Filling the channels with medium during incubation helps reduce clumping of cells towards the edges, resulting in a more uniform cell layer.

Cell growth in a CytoOne® plate with the channels between the 360° chimney wells left empty.



Cell growth in a CytoOne® plate with the channels filled with DMEM medium shows a marked reduction in 'edge effect'.



Media Volumes to add to each plate:

6-well:	15–20 ml
12-well:	20–25 ml
24-well:	20–25 ml
48-well:	20–25 ml
96-well:	10–12 ml

Tests were carried out on six other brands of 96-well tissue culture plates which were seeded and incubated under the same conditions as CytoOne®. All display an edge effect which could affect the integrity of our your data. Download the Product Data Sheet for full details.

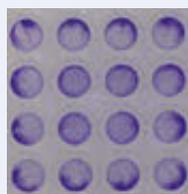


Plate A

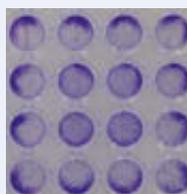


Plate B

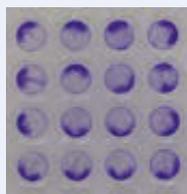


Plate C

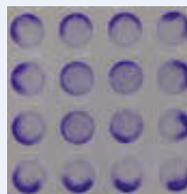


Plate D

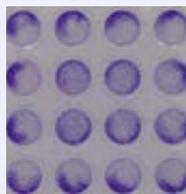


Plate E

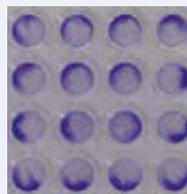
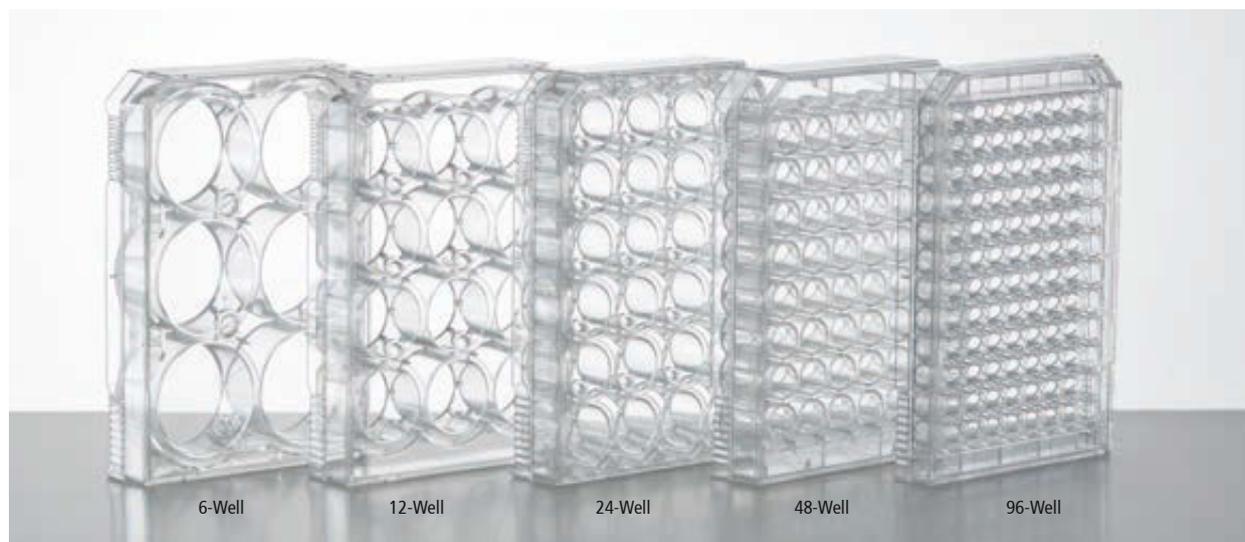


Plate F

NIH3T3 cells stained with Crystal-Violet after 24 hours at 37 °C, 5 % CO₂.
Initial seeding 0.01 x 10⁶ cells per well.

CytoOne® Multiwell Plates



Tissue culture treated plates

- ▶ Provide optimum cell attachment and growth
- ▶ Suitable for both single-cell isolation work and upscaling

Non-treated plates

- ▶ Ideal for hybridoma or lymphocyte culture
- ▶ Suitable for both single-cell isolation work and upscaling



CytoOne® Multiwell Plates		
Description	Pack Size	Cat. No.
TC treated		
6-Well CytoOne® Plate, TC-Treated	50	CC7682-7506
12-Well CytoOne® Plate, TC-Treated	50	CC7682-7512
24-Well CytoOne® Plate, TC-Treated	50	CC7682-7524
48-Well CytoOne® Plate, TC-Treated	50	CC7682-7548
96-Well CytoOne® Plate, TC-Treated	50	CC7682-7596
non-treated		
6-Well CytoOne® Plate, Non-Treated	50	CC7672-7506
12-Well CytoOne® Plate, Non-treated	50	CC7672-7512
24-Well CytoOne® Plate, Non-Treated	50	CC7672-7524
48-Well CytoOne® Plate, Non-Treated	50	CC7672-7548
96-Well CytoOne® Plate, Non-Treated	50	CC7672-7596

CytoOne®



One-way fit lids with condensation rings prevent cross contamination

Specifications			
Number of wells	Growth area	Working volume	Well diameter
6 wells	9.4 cm ²	2.0 ml	3.46 cm
12 wells	3.8 cm ²	1.5 ml	2.21 cm
24 wells	1.9 cm ²	1.0 ml	1.55 cm
48 wells	0.76 cm ²	0.5 ml	0.98 cm
96 wells	0.32 cm ²	0.2 ml	0.64 cm

CytoOne® Flasks with 2-Position Plug Seal Caps

Pressure tested

Choose tissue culture treated for optimum cell attachment and growth or non-treated for hybridoma and suspension cultures.

The two-position plug seal cap lets you choose secure manual venting or an airtight seal. Flasks feature convenient moulded volume graduations and frosted writing surfaces. The T-25, T-75, and T-150 flasks have traceable lot numbers etched into the base.



Product features

- ▶ All flasks 100% pressure tested for leak-free assurance
- ▶ Stacking rims with vented design for thermal equalisation
- ▶ Anti-tilt skirts and base bars improve stability
- ▶ Wide necks provide easy access while minimising contamination
- ▶ Optical clarity provides distortion-free microscopy
- ▶ Easy open, resealable zip top bags protect unused flasks
- ▶ Certified RNase, DNase, DNA and Pyrogen free
- ▶ Gamma sterilised

CytoOne® Flasks with 2-Position Plug Seal Caps		
Description	Pack Size	Cat. No.
TC Treated		
T-25 CytoOne® Flask, TC-Treated	30 × 10	CC7682-4325
T-75 CytoOne® Flask, TC-Treated	20 × 5	CC7682-4175
T-150 CytoOne® Flask, TC-Treated	8 × 5	CC7682-4415
T-225 CytoOne® Flask, TC-Treated	5 × 5	CC7682-4225
Non-Treated		
T-25 CytoOne® Flask, Non-Treated	30 × 10	CC7672-4325
T-75 CytoOne® Flask, Non-Treated	20 × 5	CC7672-4175
T-150 CytoOne® Flask, Non-Treated	8 × 5	CC7672-4415
T-225 CytoOne® Flask, Non-Treated	5 × 5	CC7672-4225



Two-position plug seal caps allow you to choose secure manual venting or an airtight seal



Non-treated flasks can be identified by the white caps



CytoOne® Tissue Culture Treated Flasks with Vented Filter Caps



Vented filter caps have 0.2 µm hydrophobic membrane for gas exchange and to exclude bacteria and fungal contaminants

Leak-free assurance

Tissue culture treated for optimum cell attachment and growth. The vented filter caps have a 0.2 µm hydrophobic membrane to exclude bacteria and fungal contaminants. Flasks feature convenient moulded volume graduations and frosted writing surfaces. The T-25, T-75, and T-150 flasks have traceable lot numbers etched into the base.

CytoOne® Tissue Culture Treated Flasks with Vented Filter Caps		
Description	Pack Size	Cat. No.
TC Treated		
T-25 CytoOne® Flask, TC-Treated, Vented	30 × 10	CC7682-4825
T-75 CytoOne® Flask, TC-Treated, Vented	20 × 5	CC7682-4875
T-150 CytoOne® Flask, TC-Treated, Vented	8 × 5	CC7682-4815
T-225 CytoOne® Flask, TC-Treated, Vented	5 × 5	CC7682-4822

Specifications					
Flask Type	Growth area	Neck	Working volume	Max. volume without neck	Max. volume with neck
T-25	25 cm ²	canted	5 ml	70 ml	75 ml
T-75	75 cm ²	canted	20 ml	279 ml	290 ml
T-150	150 cm ²	canted	30 ml	591 ml	603 ml
T-225	225 cm ²	angled	60 ml	1,006 ml	1,024 ml



All flasks supplied in easy-open, resealable zip-top bags



Product features

- ▶ All flasks 100% pressure tested for leak-free assurance
- ▶ Stacking rims with vented design for thermal equalisation
- ▶ Anti-tilt skirts and base bars improve stability
- ▶ Wide necks provide easy access while minimising contamination
- ▶ Optical clarity provides distortion-free microscopy
- ▶ Convenient T150 size for easier sub-culturing and upscaling
- ▶ Easy open, resealable zip-top bags protect unused flasks
- ▶ Gamma sterilised
- ▶ Certified RNase, DNase, DNA and pyrogen free

www.starlab.click/flasks



CytoOne® Bottle Top Filtration Units



Product features

- ▶ Suitable for sterile filtration of tissue culture and microbial media, buffers, reagents and other laboratory solutions
- ▶ Available as a complete system or funnel-only
- ▶ Funnels are compatible with GL45 threaded bottles (e.g. Duran®)
- ▶ Includes adapter for connecting to vacuum hose
- ▶ Ergonomic bottle shape with molded finger grips
- ▶ Patented SECUREgrasp™ cap provides a convenient gripping surface plus a frosted area for labeling
- ▶ Optional, docking stations for hands-free operation are available separately
- ▶ Made with USP Class VI materials in a class 100,000 cleanroom
- ▶ Manufactured in an ISO 13485 certified facility
- ▶ Certified non-cytotoxic and pyrogen free
- ▶ Sterile (SAL 10⁻⁶)

Easy going!

The patented, innovative CytoOne® Bottle Top Filtration Units feature a High Flow Velocity 0.2 µm PES (Polyether-sulfone) membrane that is perfect for filtering Fetal Bovine Serum (FBS) and other viscous solutions. The membrane is low protein binding and surfactant-free.

CytoOne® Bottle Top Filtration Units are available in 250 ml, 500 ml and 1000 ml complete systems or funnel-only. All units are sterile and manufactured from USP Class VI polystyrene in an ISO 13485 clean room, FDA regulated facility.

CytoOne® is compatible with the patented CytoOne® Pedestal and Cradle Ring. These optional docking stations provide hands-free filtering and a stationary vacuum hose connection, allowing for efficient set-up and quick use while preventing spills and contamination. Features in the hood.

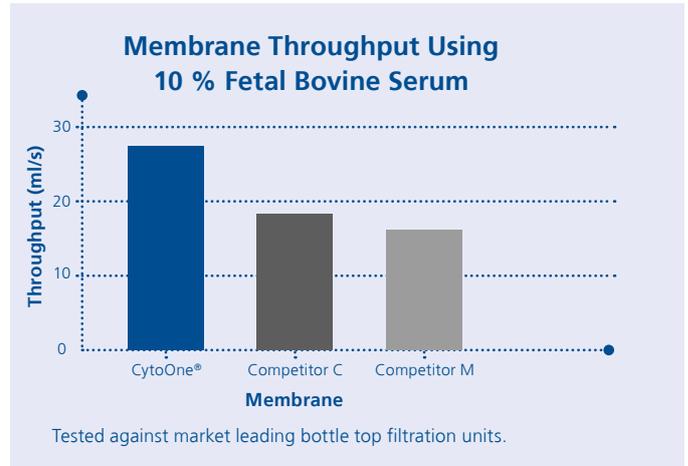


- 1 Dust cap with writing surface
- 2 Large raised volume graduations
- 3 Low protein binding PES filter with large surface area
- 4 Skirted funnel base surrounds the Quick-Connect™
Pedestal or cradle ring for secure hands-free filtration
- 5 Sloping contour with additional head space
- 6 Finger grip areas
- 7 Wide stable base
- 8 SECUREgrasp™ cap with flat writing surface and no-slip edges

The fastest in the industry!

STARLAB's new CytoOne® Bottle Top Filtration Units are designed to be the fastest in the industry, without compromising on form or function.

A combination of a larger membrane surface and advances in membrane technologies allow the new CytoOne® high velocity membrane to outperform the leading competition with **up to 50% faster flow rates**. Even the most challenging solutions can achieve a better flow rate and filtering throughput.



CytoOne® Bottle Top Filtration Units		
Description	Pack Size	Cat. No.
Full Assembly		
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.2 µm, 250 ml	12	CC6032-7233
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.2 µm, 500 ml	12	CC6032-8233
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.2 µm, 1000 ml	12	CC6032-9233
Funnel Only		
CytoOne® Bottle Top Filtration Unit, Funnel Only, 0.2 µm, 250 ml	12	CC6062-1233
CytoOne® Bottle Top Filtration Unit, Funnel Only, 0.2 µm, 500 ml	12	CC6062-2233
CytoOne® Bottle Top Filtration Unit, Funnel Only, 0.2 µm, 1000 ml	12	CC6062-3233



Docking stations for hands-free use of the filtration units are on page 113
Pedestal shown with 500 ml Bottle Top Filtration Unit

Full Assembly



250 ml
CC6032-7233

500 ml
CC6032-8233

1000 ml
CC6032-9233

Complete, ready to go systems

Funnel-only



250 ml
CC6062-1233

500 ml
CC6062-2233

1000 ml
CC6062-3233

Funnel-only for use with bottles already available in the laboratory

Centrifuge Tube Filtration Systems



15 ml



50 ml

CytoOne® Centrifuge Tube Filtration System

Description	Pack Size	Cat. No.
CytoOne® Centrifuge Tube Filtration System, 0.2 µm, 15 ml	24	CC6032-1411
CytoOne® Centrifuge Tube Filtration System, 0.2 µm, 50 ml	24	CC6032-1402

Both systems include a basic centrifuge tube stand that holds both 15 ml and 50 ml tubes.

CytoOne® Filtration Docking Units



Pedestal shown with 500 ml Bottle Top Filtration Unit



Cradle Ring shown with 50 ml Centrifuge Tube Filtration System (Stand not included)

Perfect docking!

All Bottle Top Filtration Units and both Centrifuge Tube Filtration Systems can be used with the Pedestal or the Cradle Ring for hands-free filtration. The Pedestal is made from powder-coated aluminum and can be left under the hood.

CytoOne® Filtration Docking Units

Description	Pack Size	Cat. No.
CytoOne® Vacuum Filtration Cradle Ring	1	CC6000-1122
CytoOne® Quick-Connect™ Vacuum Filtration Pedestal	1	CC6000-1116



CC6000-1116



CC6000-1122 (Stand not included)

www.starlab.click/filtration



Well prepared!

Best solution

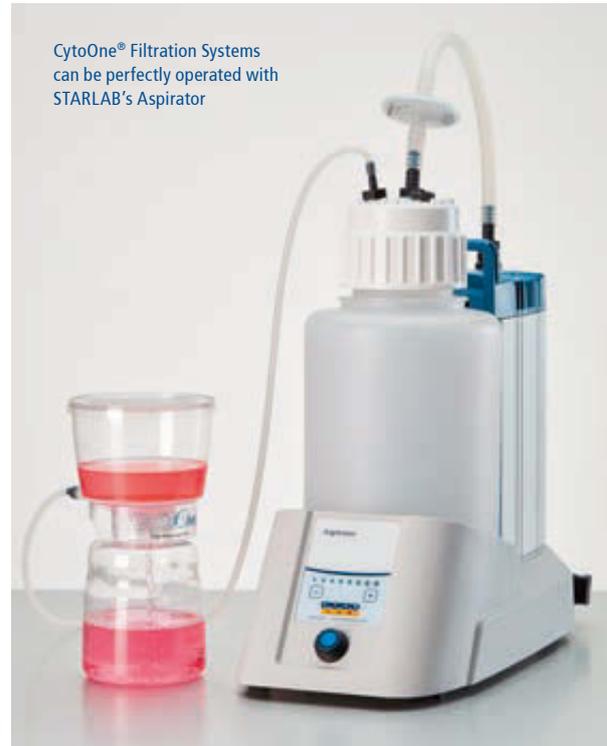
CytoOne® Filtration Systems can be perfectly operated with STARLAB's Aspirator (pages 140–142). Use our innovative Aspirator to exploit the full capacity of the Filtration Unit's high flow velocity 0.2 µm PES membrane.

Features

- ▶ Fastest filtration system in the market
- ▶ Easy handling
- ▶ Sealed system for contamination-free filtration
- ▶ Versatile
- ▶ User-friendly silent operation
- ▶ Two hand controllers can be used on the Aspirator at same time – double productivity!
- ▶ One supplier, one system



FREE SAMPLE
TRY
before you
BUY
available on request



CytoOne® Filtration Systems
can be perfectly operated with
STARLAB's Aspirator

Aspirator, including 4L PP Bottle and Hand Controller

Description	Pack Size	Cat. No.
Aspirator incl. 4l bottle & Hand Controller	1	N2400-9000

See pages 140–142 for full product details.

Fast filtration

Up to 50 % faster than conventional systems



Easy handling

Quick connect with Aspirator



Sealed system

Contamination-free assembly



Versatile

Aspirator can be used for a wide range of applications such as media replacement

Syringe Filters (Sterile)



Syringe Filters (Sterile)		
Description	Pack Size	Cat. No.
PES Membrane		
0.22 μm Syringe Filter, PES (Sterile), Blue, Ø 33 mm	100	E4780-1226
0.45 μm Syringe Filter, PES (Sterile), Yellow, Ø 33 mm	100	E4780-1456
PVDF Membrane		
0.22 μm Syringe Filter, PVDF (Sterile), Blue, Ø 33 mm	100	E4780-1221
0.45 μm Syringe Filter, PVDF (Sterile), Yellow, Ø 33 mm	100	E4780-1451
Cellulose Acetate Membrane		
0.22 μm Syringe Filter, Cellulose Acetate (Sterile), Blue, Ø 33 mm	100	E4780-1223
0.45 μm Syringe Filter, Cellulose Acetate (Sterile), Yellow, Ø 33 mm	100	E4780-1453

Nearly half the hold up volume of some other syringe filters on the market!

STARLAB's Syringe Filters are an economical choice due to the maximum recovery of your solution. Manufactured using the latest technology, these 33mm diameter filters are suitable for volumes 10–200ml. Use for cell culture media and additives, biological solutions and buffers.

Membranes

PES for fast flow and low protein binding

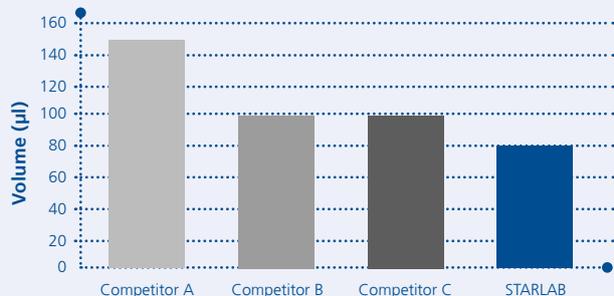
PVDF for maximum, low protein binding

Cellulose Acetate for general filtration and binding trace proteins

Product features

- ▶ Filter type printed on the filter for ease of identification
- ▶ High bubble point membrane provides tighter pore size for greater security
- ▶ High burst pressure ensures safe operation
- ▶ Large filtration surface area allows you to filter your sample more easily
- ▶ Low hold-up volume provides maximum recovery of your solution
- ▶ Convenient, larger pack sizes
- ▶ Gamma sterilised

Up to Nearly Half the Hold-Up Volume of Other Syringe Filters



Tested against market-leading syringe filters.

STARLAB Syringe Filters have nearly half the hold-up volume of some competitor syringe filters which means a lot less expensive media being wasted / held up in the syringe. Use our Syringe Filters just 20 times to save up to 140 µl - just think of the savings you'll make over the course of a month, a year.

FREE SAMPLE
TRY
before you
BUY
available on request



Supplied in easy-open plastic-paper blister packs. Lot No. and sterile validity date is printed on every pack.

CytoOne® Cell Scrapers



Rich harvest!

CytoOne® scrapers comprise a gentle silicone blade and an ABS polymer handle. They are available in three sizes for cell harvesting in a variety of dishes, flasks or plates:

- ▶ 11 mm fixed blade with 220 mm straight handle for plates and dishes
- ▶ 10 mm pivoting blade with 250 mm single angle handle for small flasks
- ▶ 12 mm pivoting blade with 320 mm dual angle handle for larger flasks

CytoOne® Cell Scrapers		
Description	Pack Size	Cat. No.
220 mm CytoOne® Cell Scraper with 11 mm Fixed Blade	100	CC7600-0220
250 mm CytoOne® Cell Scraper with 10 mm Pivoting Blade	100	CC7600-0250
320 mm CytoOne® Cell Scraper with 12 mm Pivoting Blade	100	CC7600-0320

Product features

- ▶ Silicone blade gently raises / lifts the cells from the surface so fewer cells are destroyed
- ▶ Soft silicone ensures better contact between the blade and the surface of the flask, dish or plate
- ▶ Pivoting blades pivot the full 360° around the handle for easy access to flask corners
- ▶ Flexible ABS handles for easy handling inside flasks
- ▶ Individually wrapped and in convenient inner packs of 25
- ▶ Flexible ABS handles for easy handling inside flasks
- ▶ Individually wrapped and in convenient inner packs of 25
- ▶ Gamma sterilised

Specifications			
Length	Handle	Blade Type	For use with
220 mm	straight	fixed	plates, dishes
250 mm	angled	pivoting	small flasks
320 mm	dual-angled	pivoting	large flasks

CytoOne

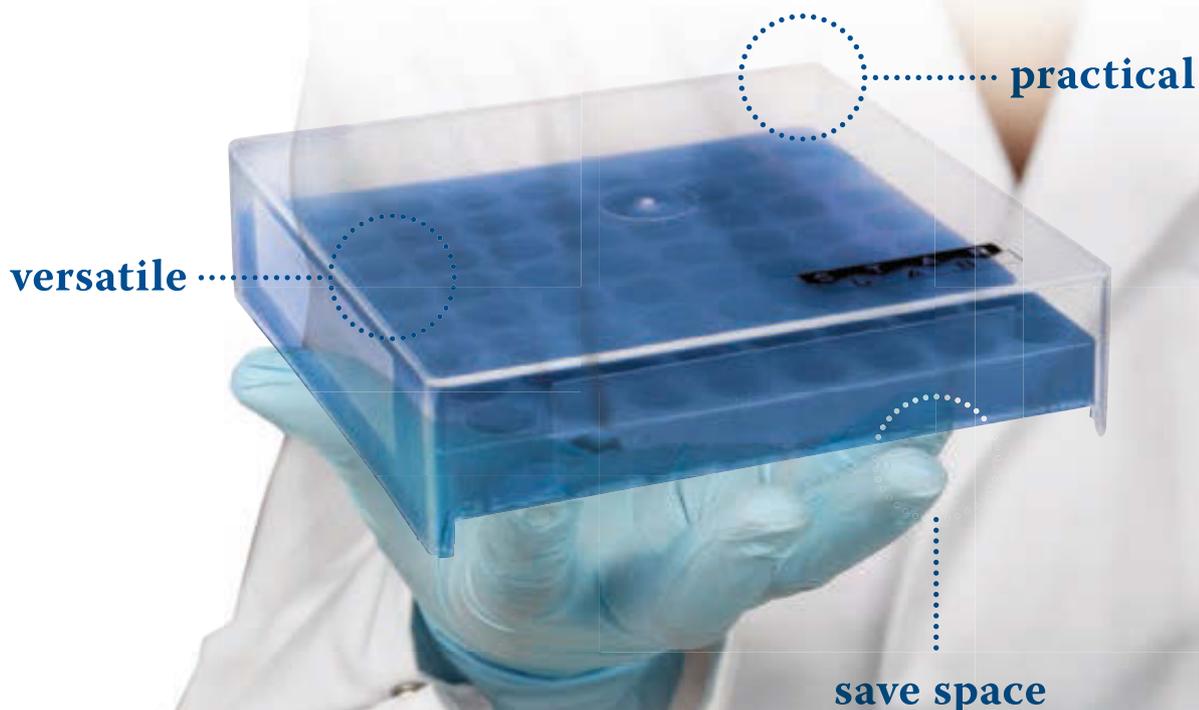
FREE SAMPLE
TRY
before you
BUY
available on request

 www.starlab.click/cellscrapers

Sample Storage

A safe place for your samples!

STARLAB provides the right solution,
whatever your sample storage needs.



STORAGE BOXES & RACKS

Polypropylene Storage Boxes	120–121
Cardboard Storage Boxes	122
Cryogenic Storage Boxes	122–123
Centrifuge Tube Storage	124
Storage Boxes & Racks	125
Multi-Tube Racks	126–128
PCR Sample Racks	128–129

BENCHTOP COOLERS

Chiller Racks	130
Ice Bath / Floating Rack	130
Transport Cases & Coolers	131

FREEZER RACKING SYSTEMS

Stainless Steel Freezer Racking	132–134
Aluminium Freezer Racking	134

Polypropylene Storage Boxes

The StarStore 130 x 130 mm range for freezer storage

This range of StarStore storage boxes all have the same, standard 130 x 130 mm footprint. The non-hinged, lift-off lids enable tubes of varying heights to be stored inside. All boxes are made from rigid polypropylene and are suitable for use in temperatures -90 °C to 121 °C. Autoclavable.

StarStore 130 x 130 mm Range Storage Boxes				
	Description	Rack Colour	Pack Size	Cat. No
	<p>StarStore 81 Fixed 13 x 13 mm dividers for the storage of 81 x 1.5/2.0 ml microcentrifuge tubes or screw cap microtubes Transparent lift-off lid with frosted writing panel on side Vent holes in base to aid draining and lid removal Printed reference grid on base Dimensions (WxDxH): 130 x 130 x 45 mm Max. tube height: 60 mm</p>	Natural	5	I 2381-5040
		Black	5	I 2381-5049
		Neon Blue	5	I 2381-5041
		Neon Green	5	I 2381-5042
		Neon Orange	5	I 2381-5043
		Neon Pink	5	I 2381-5044
		Neon Yellow	5	I 2381-5046
		Neon Mixed*	5	I 2381-5048
			<p>StarStore 49 Fixed 16 x 16 mm dividers for the storage of 49 tubes up to 16 mm diameter Transparent lift-off lid with frosted writing panel on side. Vent holes in base to aid draining and lid removal Optional, removable acetate grid placed under the lid Dimensions (WxDxH): 130 x 130 x 46 mm Max. tube height: 60 mm</p>	Natural
<p>49-Place Acetate Grid for use with StarStore 49</p>	n/a			
	<p>StarStore No dividers, to enable the storage of various tube shapes and sizes Transparent lift-off lid Vent holes in base to aid draining and lid removal Dimensions (WxDxH): 130 x 130 x 45 mm</p>	Natural	5	E2300-5005

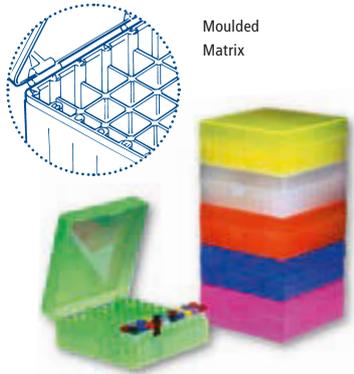
Tubes not included. *Mixed pack contains one of each neon colour.

The 130 x 130 mm Storage Boxes above can be used in all the Stainless Steel Freezer Racking featured on pages 132–134 or the Aluminum Freezer Racking on p134



www.starlab.click/storageboxes

Polypropylene provides high chemical resistance. Temperature use: -90 °C to 121 °C. Autoclavable.

StarStore 100-Place Storage Box				
	Description	Colour	Pack Size	Cat. No
 <p>Moulded Matrix</p>	<p>StarStore 100 Fixed 13 x 13 mm dividers for the storage of 100 x 1.5/2.0ml microcentrifuge tubes or screw cap microtubes Moulded reference grid inside (A–J, 1–10) Hinged, lockable lid with positioning lugs for stable stacking Dimensions (WxDxH): 140 x 155 x 55 mm</p>	Natural	5	I2310-5800
		Neon Blue	5	I2310-5841
		Neon Green	5	I2310-5842
		Neon Orange	5	I2310-5843
		Neon Pink	5	I2310-5844
		Neon Yellow	5	I2310-5846
		Neon Mixed*	5	I2310-5848
		<p>StarStore 100 can be used inside the Stainless Steel Freezer Racking on pages 133</p> 		

Tubes not included. *Mixed pack contains one of each neon colour.

StarStore 50-Place Storage Boxes				
	Description	Rack Colour	Pack Size	Cat. No
	<p>StarStore 50 Neon (Hinged) Smaller version of the StarStore 100 (see above) Fixed 13 x 13 mm dividers for the storage of 50 x 1.5/2.0 ml microcentrifuge tubes Moulded reference grid inside (A–J, 1–5) Hinged, lockable lid with positioning lugs for stable stacking Dimensions (WxDxH): 140 x 80 x 55 mm</p>	Natural	5	I2350-5800
		Neon Blue	5	I2350-5841
		Neon Green	5	I2350-5842
		Neon Orange	5	I2350-5843
		Neon Pink	5	I2350-5844
		Neon Yellow	5	I2350-5846
		Mixed Neon*	5	I2350-5848
	<p>StarStore 50 (Stackable) Fixed 13 x 13 mm dividers for the storage of 50 x 1.5/2.0 ml microcentrifuge tubes Lift-off lid with positioning lugs for stable stacking Dimensions (WxDxH): 144 x 75 x 35 mm Max. tube height: 45 mm</p>	Natural	5	E2450-5000
		Blue	5	E2450-5001
		Green	5	E2450-5002
		Pink	5	E2450-5004
		Yellow	5	E2450-5006
		Mixed**	5	E2450-5099
	<p>StarStore 50 Fixed 13 x 13 mm dividers for the storage of 50 x 1.5/2.0 ml microcentrifuge tubes Transparent, lift-off lid Dimensions (WxDxH): 146 x 76 x 38 mm</p>	Natural	5	E2350-5009
	<p>StarStore 50 Jr. Fixed 10 x 10 mm dividers for the storage of 50 x 0.5 ml microcentrifuge tubes Lift-off lid with moulded matrix (A–E 1–10) Dimensions (WxDxH): 121 x 62 x 37 mm Max. tube height: 60 mm</p>	Natural	5	E2305-6009

Tubes not included. *Mixed pack contains one of each neon colour. **Mixed pack contains one of each colour.

Cardboard Storage Boxes

Cardboard Storage Boxes				
	Description	Box Height	Pack Size	Cat. No
<p>White cardboard boxes with moisture-resistant coating for use down to -80°C.</p>  <p>50 mm high boxes can be used in the Stainless Steel Freezer Racks on p132. All box heights can be used in the Aluminum Freezer Rack on p134</p> <p>All boxes have the same footprint: 133 x 133 mm (incl. lid). Max. tube diam. stated includes tube cap.</p>	<p>16-Place cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 31 mm diameter</p>	50 mm	1	A9023-1616
		75 mm	1	A9025-1616
		100 mm	1	A9027-1616
	<p>25-Place cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 24.5 mm diameter</p>	50 mm	1	A9023-2525
		75 mm	1	A9025-2525
		100 mm	1	A9027-2525
	<p>49-Place cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 16.5 mm diameter</p>	50 mm	1	A9023-4949
		75 mm	1	A9025-4949
		100 mm	1	A9027-4949
	<p>81-Place cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 13 mm diameter</p>	50 mm	1	A9023-8181
		75 mm	1	A9025-8181
		100 mm	1	A9027-8181
<p>100-Place cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 12 mm diameter</p>	50 mm	1	A9023-3100	
	75 mm	1	A9025-3100	
	100 mm	1	A9027-3100	

Cardboard Centrifuge Tube Storage Boxes				
	Description	Box Type	Pack Size	Cat. No
	<p>Cardboard storage boxes for centrifuge tubes Manilla cardboard box with lift-off lid Removable dividers Moisture resistant coating Dimensions (WxDxH): 145 x 145 x 80 mm Max. tube height: 140 mm</p>	36-Place for 15 ml Tubes	1	I 9023-1615
		16-Place for 50 ml Tubes	1	I 9023-1650

Tubes not included.

Cryogenic Storage Boxes

Polycarbonate boxes for ultra-low temperature storage. Temperature use: -196 °C to 121 °C. Autoclavable.

Polycarbonate Cryogenic Storage Boxes				
	Description	Box Type	Pack Size	Cat. No
<p>Can be used in the Stainless Steel Freezer Racks on page 132 as well as in the Aluminum Freezer Rack on page 134</p> 	<p>Cryogenic storage boxes 81-place or 100-place have grid dividers White polycarbonate base with transparent, keyed (one-way) lift-off lid with printed reference grid Drain holes for venting and safety Dimensions (WxDxH): 130 x 130 x 55 mm</p>	81-Place	5	I 2381-2305
		100-Place	5	I2510-5005

Cryogenic Storage Boxes



Coloured cryogenic storage boxes

A range of coloured polycarbonate storage boxes for use in ultra-low temperatures. Boxes can be submerged in LN₂. A choice of different colour bases allows you to colour coordinate your samples for easy identification. Temperature use: -196 °C to 121 °C. Autoclavable.

Coloured Polycarbonate Cryogenic Storage Boxes				
	Description	Base Colour	Pack Size	Cat. No
	25-Place Coloured base with crystal-clear, lift-off lid Fixed 13 x 13 mm grid dividers Printed matrix on dividers Dimensions (WxDxH): 76 x 76 x 54 mm Max. tube height: 49 mm	Blue	5	E2381-5001
		Green	5	E2381-5002
		Orange	5	E2381-5003
		Red	5	E2381-5004
		Yellow	5	E2381-5006
		Mixed*	5	E2381-5099
	81-Place Coloured base with crystal-clear, lift-off lid Fixed 13 x 13 mm grid dividers Printed matrix on grid dividers Dimensions (WxDxH): 133 x 133 x 54 mm Max. tube height: 49 mm Can be used in the Stainless Steel Freezer Racks on page 132 or the Aluminium Rack on page 134	Blue	5	E2382-5001
		Green	5	E2382-5002
		Orange	5	E2382-5003
		Red	5	E2382-5004
		Yellow	5	E2382-5006
		Mixed*	5	E2382-5099
	81-Place, Tall Coloured base with crystal-clear, lift-off lid Fixed 13 x 13 mm grid dividers Printed matrix on grid dividers Dimensions (WxDxH): 133 x 133 x 95 mm Max. tube height: 91 mm Can be used in the Aluminium Rack on page 134	Blue	5	E2382-6001
		Green	5	E2382-6002
		Orange	5	E2382-6003
		Red	5	E2382-6004
		Yellow	5	E2382-6006
		Mixed*	5	E2382-6099
	100-Place Coloured base with crystal-clear, lift-off lid Fixed 13 x 13 mm pronged dividers Printed matrix on pronged dividers Dimensions (WxDxH): 133 x 133 x 54 mm Max. tube height: 49 mm Can be used in the Stainless Steel Freezer Racks on page 132 or the Aluminium Rack on page 134	Blue	5	E2383-5001
		Green	5	E2383-5002
		Orange	5	E2383-5003
		Red	5	E2383-5004
		Yellow	5	E2383-5006
		Mixed*	5	E2383-5099

*Mixed pack contains one of each colour.

Zylar resin box for ultra-low temperature storage. Temperature use: -196 °C to 121 °C. Autoclavable.

Zylar resin Cryogenic Storage Boxes				
	Description	Colour	Pack Size	Cat. No
Can be used in the Stainless Steel Freezer Racks on page 132 or the Aluminium Freezer Rack on page 134	 StarStore 81Z zylar resin storage box Fixed 13 x 13 mm dividers Transparent lift-off lid with frosted writing panels on sides Vent strips in base for safety and to aid lid removal Dimensions (WxDxH): 130 x 130 x 45 mm	Natural	5	E2301-5309

Centrifuge Tube Storage

A range of storage solutions specifically for centrifuge tubes.

Centrifuge Tube Storage Boxes				
	Description	Colour	Pack Size	Cat. No
	Centrifuge tube storage / transport boxes Green box holds 36 x 15 ml tubes Blue box holds 16 x 50 ml tubes Clear lift-off lid Highly visible, white printed matrix on base Base can be removed for use in the water bath For use in temperatures -90 °C to 121 °C. Autoclavable Dimensions (WxDxH): 145 x 145 x 127 mm	Green (for 15 ml)	2	E9025-3615
		Blue (for 50 ml)	2	E9025-1650
	Centrifuge tube storage boxes Clear polypropylene boxes. One holds 25 x 15 ml tubes, the other holds 2 x 15 ml tubes and 10 x 50 ml tubes. Clear lift-off lid For use in temperatures -90 °C to 121 °C. Autoclavable Dimensions (WxDxH): 130 x 130 x 130 mm	Natural (for 25 x 15 ml)	1	E9025-2515
		Natural (for 2 x 15 ml & 10 x 50 ml)	1	E9025-1550
	Wire racks for 15 ml or 50 ml tubes Chemically resistant epoxy coated wire racks Ideal for use with conical tubes 15-place rack for 15 ml tubes (max. tube diameter: 20 mm) Dimensions (WxDxH): 127 x 76 x 176 mm 8-place rack for 50 ml tubes (max. tube diameter: 30 mm) Dimensions (WxDxH): 147 x 80 x 89 mm Both racks are autoclavable	Blue (for 15 ml)	1	E2396-1515
		Blue (for 50 ml)	1	E2396-1550
	StarRack Multi for 15 ml or 50 ml tubes 60-place rack for 15 ml tubes (16 mm holes) 18-place rack for 50 ml tubes (30 mm holes) Made from autoclavable, impact resistant acetal polymer Convenient carrying handles on either end of the rack Ideal for use in the waterbath as they will sink to the bottom without toppling over! Dimensions (WxDxH): 293 x 115 x 65 mm	60-Place Rack		
		Blue	1	E2396-9711
		Green	1	E2396-9712
		Orange	1	E2396-9713
		Violet	1	E2396-9715
		Yellow	1	E2396-9716
		18-Place Rack		
		Blue	1	E2396-9721
		Green	1	E2396-9722
		Orange	1	E2396-9723
Violet	1	E2396-9725		
Yellow	1	E2396-9726		

Tubes not included.

See also Cardboard Storage Boxes on page 122, plus many of the multi-tube racks on pages 126–128 will accommodate centrifuge tubes

SEE ALSO:
Stainless Steel Freezer Racks for the direct storage of Centrifuge Tubes on page 133



 www.starlab.click/storageboxes

Storage Boxes & Racks

Polypropylene provides high chemical resistance. Temperature use: -90 °C to 121 °C. Autoclavable.

100-Place High-Profile Storage Boxes & Racks				
	Description	Colour	Pack Size	Cat. No
	<p>100-Place polypropylene storage box, ideal for the storage of taller tubes, up to 53 mm high such as the Screw Cap Microtubes on pages 68 and 69. Fixed 12.5 x 12.5 mm dividers Moulded reference grid inside (A–J, 1–10) Hinged lid with positioning lugs for stable stacking Completely black box available for light sensitive samples Dimensions (WxDxH): 140 x 155 x 64 mm</p>	Natural	5	E2100-5000
		Green	5	E2100-5002
		Red	5	E2100-5004
		Yellow	5	E2100-5006
		Black*	5	E2100-5008

Tubes not included.. *Black base and lid

StarRack 80				
	Description	Colour	Pack Size	Cat. No
 <p>The StarRack 80 does not have a lid, but an optional storage box is available</p> 	<p>StarRack 80 polypropylene fraction collection rack Holds 80 x 1.5/2.0 ml tubes Max. tube diam. 11 mm Alpha numeric reference grid (A–E, 1–16) This rack does not have a lid, but it does have an optional storage box into which it fits for extra security during freezer storage Dimensions (WxDxH): 226 x 67 x 28 mm</p>	Natural	5	E2380-5000
		Blue	5	E2380-5001
		Green	5	E2380-5002
		Orange	5	E2380-5003
		Red	5	E2380-5004
		Violet	5	E2380-5005
		Yellow	5	E2380-5006
		Black	5	E2380-5007
		Mixed*	5	E2380-5008
		Neon Blue	5	E2380-5041
		Neon Green	5	E2380-5042
		Neon Orange	5	E2380-5043
		Neon Pink	5	E2380-5044
		Neon Yellow	5	E2380-5046
	Neon Mixed*	5	E2380-5048	
	<p>StarRack 80 Storage Box Polypropylene storage box for StarRack 80 Transparent, hinged lid with natural or coloured base Dimensions (WxDxH): 236 x 85 x 52 mm</p>	Natural	5	E2390-5000

*Mixed pack contains one each of blue, green, orange, red and yellow. Neon mixed pack contains one of each neon colour.

Multi-Tube Racks

Polypropylene provides high chemical resistance. Temperature use: -90 °C to 121 °C. Autoclavable.

Double-Sided StarRacks				
	Description	Colour	Pack Size	Cat. No
<p>Double-sided!</p> 	<p>StarRack 40 double-sided polypropylene rack with moulded matrix on both sides (A–D, 1–9) Holds: 32 x 0.5 ml tubes AND 8 x 1.5/2.0 ml tubes on one side, 32 x 1.5/2.0 ml tubes AND 8 x 0.5 ml tubes on the other Transparent, lift-off lid Dimensions (WxDxH): 170 x 80 x 28 mm (without lid) 170 x 80 x 50 mm (with lid)</p>	Natural	1	E2340-4000
		Neon Blue	1	E2340-4041
		Neon Green	1	E2340-4042
		Neon Orange	1	E2340-4043
		Neon Pink	1	E2340-4044
		Neon Yellow	1	E2340-4046
		Mixed Neon*	5	E2340-3099
		<p>Double-sided!</p> 	<p>StarRack 64 double-sided polypropylene rack with moulded matrix on both sides (A–H, 1–8) Holds: 64 x 0.5 ml tubes on one side, 64 x 1.5/2.0 ml tubes on the other Transparent, lift-off lid Dimensions (WxDxH): 130 x 130 x 30 mm (without lid), 130 x 130 x 50 mm (with lid)</p> <p>StarRack 64 racks fit inside the Stainless Steel Freezer Racks on page 132 or the Aluminum Freezer Rack on page 134</p>	Natural
Blue	1			E2364-1011
Green	1			E2364-1012
Orange	1			E2364-1013
Red	1			E2364-1014
Violet	1			E2364-1015
Yellow	1			E2364-1016
Mixed*	5			E2364-6099
Neon Blue	1			E2364-1041
Neon Green	1			E2364-1042
Neon Orange	1			E2364-1043
Neon Pink	1			E2364-1044
Neon Yellow	1			E2364-1046
Mixed Neon*	5			E2364-6048
<p>Double-sided!</p> 	<p>StarRack 96 double-sided polypropylene rack with moulded matrix on both sides (A–H, 1–12) Holds: 96 x 0.5 ml tubes on one side, 96 x 1.5/2.0 ml tubes on the other Transparent, lift-off lid Dimensions (WxDxH): 222 x 114 x 28 mm (without lid), 222 x 120 x 50 mm (with lid)</p>			Natural
		Blue	1	E2396-0011
		Green	1	E2396-0012
		Orange	1	E2396-0013
		Red	1	E2396-0014
		Violet	1	E2396-0015
		Yellow	1	E2396-0016
		Black	1	E2396-0018
		Mixed*	5	I2396-5099
		Neon Blue	1	E2396-0041
		Neon Green	1	E2396-0042
		Neon Orange	1	E2396-0043
		Neon Pink	1	E2396-0044
		Neon Yellow	1	E2396-0046
		Mixed Neon*	5	I2396-5048

*Mixed packs contain one each of blue, green, orange, red and yellow. Neon Mixed packs contain one of each neon colour.



www.starlab.click/tuberacks

Versatile racking systems. Polypropylene provides high chemical resistance. Temperature use: -90 °C to 121 °C. Autoclavable.

Combi-Racks					
	Description	Colour	Pack Size	Cat. No	
	Combi-Mini polypropylene rack Each rack contains 80 holes: 4 x 50 ml tubes (30 mm) 12 x 15 ml tubes (17 mm) 32 x 1.5/2.0 ml tubes (12 mm) 32 x 0.5 ml tubes (8 mm) Dimensions (WxDxH): 171 x 91 x 54 mm		Natural	1	E2345-1000
			Neon Blue	1	E2345-1041
			Neon Green	1	E2345-1042
			Neon Orange	1	E2345-1043
			Neon Pink	1	E2345-1044
			Neon Yellow	1	E2345-1046
			Mixed Neon*	5	E2345-1099
			Two slightly different versions available, both designed to hold an array of tubes 	Combi-Max 92 polypropylene rack Each rack contains 92 holes: 8 x 50 ml tubes (30 mm) 20 x 20 mm diam. tubes (21 mm) 24 x 15 ml tubes (17 mm) 40 x 12/13 mm diam tubes (13 mm) Dimensions (WxDxH): 198 x 114 x 95 mm	Natural
Neon Blue	1	E2346-1041			
Neon Green	1	E2346-1042			
Neon Orange	1	E2346-1043			
Neon Pink	1	E2346-1044			
Neon Yellow	1	E2346-1046			
Mixed Neon*	5	E2346-1099			
Combi-Max 96 polypropylene rack Each rack contains 96 holes: 12 x 25 ml tubes (27 mm) 20 x 20 mm diam. tubes (21 mm) 24 x 15 ml tubes (17 mm) 40 x 12/13 mm diam tubes (13 mm) Dimensions (WxDxH): 198 x 114 x 95 mm	Blue	1			E2347-1001
	Green	1		E2347-1002	
	Orange	1		E2347-1003	
	Red	1		E2347-1004	
	Violet	1		E2347-1005	
Mixed**	5	E2347-1099			

Tubes not included. *Mixed packs contain one of each neon colour. **Mixed pack contains one of each colour.

TwisStar Rack				
	Description	Colour	Pack Size	Cat. No
 	TwisStar polypropylene rack comprising four sections that can be rotated and locked together to achieve various configurations for holding different tubes and a PCR plate Each complete unit (4 colour sections) holds up to: 50 ml tubes (max. 30 mm ø) x 2 per section 15 ml tubes (max. 18 mm ø) x 8 per section 1.5/2.0 ml tubes (max. 11 mm ø) x 12 per section 0.5 ml tubes (max. 8 mm ø) x 6 per section PCR Plate 1 plate across 2 sections 8-Tube PCR strips x 6 per section 12-Tube PCR strips x 8 across 2 sections 0.2 ml PCR tubes x 48 per section Dimensions (WxDxH): 257 x 108 x 108 mm (complete unit) 69 x 108 x 108 mm (each section)	Yellow Blue Green Red	1	E2344-1099

Tubes/plate not included.

Totally Tubular™				
	Description	Colour	Pack Size	Cat. No
	Totally Tubular™ – four polypropylene racks in a support tray Each cube contains 29 holes for: 2 x 50 ml tubes (30 mm) 6 x 15 ml tubes (17 mm) 9 x 1.5/2.0 ml tubes (12 mm) 12 x 0.5 ml tubes (11 mm) Individual cube dimensions (WxDxH): 93 x 93 x 48 mm	Yellow Blue Green Red	1 Tray, 4 Cubes	I 2344-1000
		Neon Green Neon Orange Neon Pink Neon Yellow	1 Tray, 4 Cubes	I 2344-1040

Tubes not included.

Multi-Tube Racks

Polypropylene provides high chemical resistance. Temperature use: -90 °C to 121 °C. Autoclavable.

Connect-A-Rack				
	Description	Colour	Pack Size	Cat. No
 <p>Double-sided!</p>	<p>Connect-A-Rack polypropylene double-sided rack Can be connected side by side, or one on top of the other Holds 80 x tubes up to 12 mm diameter on one side 60 x 0.2/0.5 ml tubes on the other Frosted writing area on sides of rack Very small footprint to save valuable bench space Supplied with two removable handles and connecting pins Dimensions (WxDxH): 223 x 67 x 27 mm (without lid) Lid supplied separately</p>	Blue	5	E2380-6001
		Green	5	E2380-6002
		Orange	5	E2380-6003
		Pink	5	E2380-6004
		Yellow	5	E2380-6006
		Transparent Lid for use with Connect-A-Rack	Clear	5

Tubes not included.

Three-Tier Multi-Tube Rack				
	Description	Colour	Pack Size	Cat. No
	<p>Three-Tier Multi Tube Rack* Polypropylene racks that can be connected side by side Each tier holds a different size tube: Top: 12 x 1.5/2.0 ml tubes Middle: 14 x 0.5 ml tubes Bottom: 24 x 0.2 ml tubes Dimensions (WxDxH): 123 x 164 x 62 mm</p>	Mixed (one each of Blue, Green, Violet, Yellow, Orange and Natural)	6	E2313-1009

*Tubes not included.

StarRack Multi				
	Description	Colour	Pack Size	Cat. No
	<p>StarRack Multi 84-place rack, ideal for taller tubes e.g. cryogenic storage vials up to 13 mm diameter Made from autoclavable, impact resistant acetal polymer Convenient carrying handles on either end of the rack Ideal for use in the waterbath as they will sink to the bottom without toppling over! Dimensions (WxDxH): 293 x 115 x 65 mm</p>	Blue	1	E2396-9701
		Green	1	E2396-9702
		Orange	1	E2396-9703
		Violet	1	E2396-9705
		Yellow	1	E2396-9706

Tubes not included. NOTE: This rack is not suitable for use with microcentrifuge tubes.

PCR Sample Racks

StarPCR Work Rack				
	Description	Colour	Pack Size	Cat. No
	<p>StarPCR Work Rack Sturdy polypropylene rack for use with: 1 x 96-well PCR plate, or 0.2 ml PCR tubes or strips Positive snap-in transparent lid guarantees safe closure Stackable with or without lid Suitable for use down to -90 °C Dimensions (WxDxH): 138 x 98 x 39 mm (with lid) NOTE: Not autoclavable</p>	Mixed (one each of blue, green, red, violet, yellow)	5	E2396-5240



www.starlab.click/pcrracks

PCR Sample Racks



PCR Workstation

Polypropylene racks for the storage of PCR tubes, PCR strips and PCR plates, as well as 0.5 ml and 1.5/2.0 ml microcentrifuge tubes. Moulded, alpha-numeric matrix. The two different sized racks (Rack A and Rack B) can be combined to form the complete PCR Workstation. Racks can either be purchased separately or together as a complete workstation. Temperature use: -90 °C to 121 °C. Autoclavable.

PCR Workstation				
	Description	Colour	Pack Size	Cat. No
	Rack A only (Satellite Rack) 96 wells to hold 0.2 ml PCR tubes, PCR strips or 1 x 96-well PCR plate Each rack supplied with transparent, lift-off lid Dimensions (WxDxH): 127 x 87 x 33 mm (with lid)	Neon Blue*	1	E2396-1641
		Neon Green*	1	E2396-1642
		Neon Orange*	1	E2396-1643
		Neon Pink*	1	E2396-1644
		Neon Yellow*	1	E2396-1646
		Mixed Neon**	5	E2396-9649
	Rack B only (Workstation Rack) Holds 32 x 0.2 ml PCR tubes, 16 x 0.5 ml tubes (PCR or MCT), and 24 x 1.5/2.0 ml microcentrifuge tubes Each rack supplied with transparent, lift-off lid Dimensions (WxDxH): 215 x 115 x 50 mm (with lid)	Neon Blue*	1	E2396-1651
		Neon Green*	1	E2396-1652
		Neon Orange*	1	E2396-1653
		Neon Pink*	1	E2396-1654
		Neon Yellow*	1	E2396-1656
		Mixed Neon**	5	E2396-9659
	Racks A & B (Complete Workstation) Rack A (without lid) can be inserted into the designated area of Rack B Supplied with lid for Rack B only	Neon Blue*	1+1	E2396-9691
		Neon Green*	1+1	E2396-9692
		Neon Orange*	1+1	E2396-9693
		Neon Pink*	1+1	E2396-9694
		Neon Yellow*	1+1	E2396-9696
		Mixed Neon***	5+5	E2396-9669

* Pack contains one rack with lid. **Pack contains one rack of each colour and five lids. *** Pack contains five Rack A (one of each colour), five Rack B (one of each colour) and five lids for Rack B. Tubes not included.

PCR Lock-Rack				
	Description	Colour	Pack Size	Cat. No
	PCR Lock-Rack Polypropylene racks which lock together to make larger/smaller racks Transparent lid fits over two sections locked together Each section holds 24 x 1.5/2.0 ml tubes, 16 x 0.5 ml tubes and 60 x 0.2 ml tubes. Two sections locked together can hold a 96-Well PCR plate Dimensions (WxDxH): 133 x 107 x 56 mm (2 sect. with lid)	Mixed (one section each of blue, green, red, yellow)	4 Sections, 2 Lids	E2344-2099

Tubes/plate not included.

Double-Sided PCR Work Rack				
	Description	Colour	Pack Size	Cat. No
	Double-Sided PCR Work Rack Double-sided polypropylene rack with transparent (detachable), hinged lid which has: 168 x 0.2 ml wells AND 12 x 1.5 ml wells on one side, and 40 x 0.5 ml wells AND 12 x 1.5 ml wells on the other Dimensions (WxDxH): 206 x 131 x 54 mm	Mixed (one each of blue, green, orange pink, yellow)	5	E2396-0599

Tubes not included.

Chiller Racks



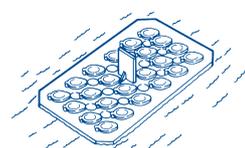
StarChill. High performance chiller racks

Maintain a fridge environment on the benchtop or on your robot! The centre section of StarChill racks changes colour when frozen. It then gradually turns back to its original colour as it warms up, thus giving an instant, visual-indication of the temperature.

Chiller Racks				
	Description	Colour	Pack Size	Cat. No.
	StarChill PCR 96-well rack with lid, for use with: 0.2 ml tubes (single or strip) or 0.2 ml 96-well PCR Plate Temperature colour change: 7 °C Estimated time at 4 °C: 3+ hours* Dimensions (WxDxH): 141 x 99 x 38 mm (without lid) 141 x 99 x 44 mm (with lid)	Pink (warm) Purple (cold)	2	E2396-2004
		Yellow (warm) Green (cold)	2	E2396-2006
	StarChill MCT 24-well rack with lid, for use with: 0.5, 1.5 & 2.0 ml microcentrifuge / screw cap tubes Temperature colour change: 7 °C Estimated time at 4 °C: 3+ hours* Dimensions (WxDxH): 146 x 105 x 65 mm (without lid) 146 x 105 x 70 mm (with lid)	Pink (warm) Purple (cold)	1	E2396-5634
		Yellow (warm) Green (cold)	1	E2396-5636
	StarChill SBS 96-well rack (no lid), for use on AUTOMATED SYSTEMS with: 0.2 ml tubes (single or strip) or 0.2 ml 96-well PCR Plate Temperature colour change: 7 °C Estimated time at 4 °C: 2+ hours* Dimensions (WxDxH): 128 x 85 x 26 mm	Pink (warm) Purple (cold)	2	E2396-5654
		Yellow (warm) Green (cold)	2	E2396-5656
	StarChill qPCR Tube Capacity: 64 x 0.1 ml Corbett Rotor-Gene tubes, 16 x 0.2 ml single tubes (or 2 x 8-strips) and 4 x 0.5 ml tubes Est. Time below 4° C: 2.5 hours Dimensions: 141 x 99 x 44 mm	White (warm) Blue (cold)	2	E2396-3008

*Time will vary, depending on ambient temperature. All StarChill racks must be frozen for a minimum of 8 hours at -20 °C before use. Not Autoclavable.

Ice Bath / Floating Rack



Used in the waterbath, the rack insert floats with great stability



Or you can pack ice around each tube inside the rack

A versatile rack that can be used as a self-contained ice bath or used in the waterbath. Use the rack in the hinged storage box supplied and pack with ice; or take it out to float in the water bath—the moulded-in buoys give the racks exceptional stability.

- ▶ Holds 24 x 1.5/2.0 ml tubes, or 14 x 0.5 ml tubes, or a combination of both
- ▶ Temperature use: -80 °C to 121 °C. Autoclavable

Ice Bath / Floating Rack*		
Description	Pack Size	Cat. No.
Ice Bath / Floating Rack	5	I2324-5000

*Tubes not included.

Transport Cases & Coolers

Transport Cases & Coolers				
	Description	Colour	Pack Size	Cat. No
 	<p>Benchtop Cooler / Transport Case Small, polypropylene, case-style holder with ice-gel tube holder insert for 48 x 1.5/2.0 ml tubes Protects valuable enzymes from temperature fluctuation due to frost-free cycles, power loss or open freezer doors. Handy note panel inside the lid Maintains temperatures of: -15 °C or lower, for 4 hours if frozen to -20 °C -15 °C or lower, for 6 hours if frozen to -23 °C Dimensions (WxDxH): 215 x 200 x 95 mm Weight 2.5 kg NOTE: Not autoclavable</p>	Black	1	I 6348-1515
 	<p>Cryo Cooler / Transport Case Small, polypropylene, case-style holder with ice-gel tube holder insert for 48 x 1.5/2.0 ml tubes Protects cells and biologicals stored in -70 °C freezers. Use for added protection when shipping valuable samples on dry ice. Handy note panel inside the lid When frozen to -70 °C the Cryo Cooler will take up to 10 hours to raise to a temperature of -10 °C. Dimensions (WxDxH): 215 x 200 x 95 mm Weight 2.5 kg NOTE: Must be frozen to -70 °C for a minimum of 24 hours before use. Not autoclavable</p>	Black	1	I 6342-4270
 	<p>Mini Cooler Small rack with ice-gel tube holder insert for 8 x 1.5/2.0 ml tubes Perfect for the transportation of a small number of samples. Hinged, transparent lid with snap-catch Maintains -15 °C or below for up to 1 hour Dimensions (WxDxH): 120 x 85 x 90 mm Weight: 750 g NOTE: Must be frozen to -20 °C for a minimum of 24 hours before use. Not autoclavable</p>	Silver	1	I 6308-1515
 	<p>CryoSecure® Double-sided racks with ice-gel tube insert for use with: 20 x 0.5 ml tubes on one side, or 20 x 1.5/2.0 ml tubes on the other Maintain low-temperature storage of reagents, cells and enzymes removed from the freezer. White rack maintains 0 °C for a minimum of 5 hours Blue rack maintains -10 °C to -20 °C for up to 3 hours Dimensions (WxDxH): 172 x 110 x 105 mm with lid NOTE: Not autoclavable</p>	White (0 °C Rack)	1	I 2312-2720
		Blue (-20 °C Rack)	1	I 2312-2721

Tubes not included.

Stainless Steel Freezer Racking

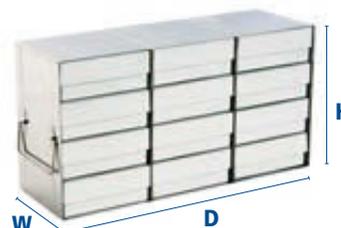
Freezer racking for standard storage boxes up to 136 x 136 x 55mm

These Stainless Steel (SS) racks for upright or chest freezers are designed for use with standard storage boxes and racks.

The freezer racks on this page are suitable for use with:

- ▶ The StarStore 130 x 130 mm range of storage boxes on page 120
- ▶ The 50 mm high cardboard storage boxes on page 122
- ▶ The cryogenic storage boxes specified on pages 122–123
- ▶ StarRack 64 on page 126
- ▶ Any storage box up to 136x 136 x 55mm

Measuring upright freezer racking



I2602-3400



Racks with side access have a handle on either end

Stainless Steel Racks with Side Access for Upright Freezers				
Description	Boxes Deep	Boxes High	Dimensions (WxDxH)	Cat. No.
9-Place SS Rack	3	3	139 x 419 x 168 mm	I2602-3300
12-Place SS Rack	3	4	139 x 419 x 221 mm	I2602-3400
15-Place SS Rack	3	5	139 x 426 x 276 mm	I2602-3500
12-Place SS Rack	4	3	139 x 558 x 168 mm	I2602-4300
16-Place SS Rack	4	4	139 x 558 x 221 mm	I2602-4400
20-Place SS Rack	4	5	139 x 558 x 276 mm	I2602-4500

Boxes not included.

I2632-3400



Racks with pull-out shelves provides front access so there is no need to remove the complete unit when unloading all or one of the boxes from the freezer

Stainless Steel Racks with Pull Out Drawers for Upright Freezers				
Description	Boxes Deep	Boxes High	Dimensions (WxDxH)	Cat. No.
9-Place SS Rack, Pull Out Shelves	3	3	140 x 421 x 171 mm	I2632-3300
12-Place SS Rack, Pull Out Shelves	3	4	140 x 421 x 228 mm	I2632-3400
16-Place SS Rack, Pull Out Shelves	4	4	140 x 558 x 228 mm	I2632-4400

Boxes not included.

I2602-1100



Racks for chest freezers have a handle on the top, plus a locking bar to prevent boxes from slipping out when lifting the rack in or out of the freezer

Stainless Steel Racks for Chest Freezers		
Description	Dimensions (WxDxH)	Cat. No.
6-High SS Rack	140 x 140 x 335 mm	I2602-6000
7-High SS Rack	140 x 140 x 390 mm	I2602-7000
8-High SS Rack	140 x 140 x 445 mm	I2602-8000
9-High SS Rack	140 x 140 x 500 mm	I2602-9000
10-High SS Rack	140 x 140 x 555 mm	I2602-1000
11-High SS Rack	140 x 140 x 610 mm	I2602-1100
12-High SS Rack	140 x 140 x 665 mm	I2602-1200

 www.starlab.click/frezeracking

Freezer racking for StarStore 100 storage boxes (140 x 155 mm)

These Stainless Steel (SS) racks for upright and chest freezers are designed specifically for use with our popular StarStore 100 storage boxes (page 121).

The racks for upright freezers have a handle on either end. The racks for chest freezers have a handle on the top, plus a locking bar to prevent the boxes slipping out when lifting the rack in or out of the freezer.

Upright Freezer Racks for StarStore 100				
Description	Boxes Deep	Boxes High	Dimensions (WxDxH)	Cat. No.
8-Place SS Rack	2	4	149 x 318 x 235 mm	I 2610-0800
12-Place SS Rack	3	4	149 x 476 x 235 mm	I 2610-1200
15-Place SS Rack	3	5	149 x 476 x 294 mm	I 2610-1500

Boxes not included.

Chest Freezer Racks for StarStore 100		
Description	Dimensions (WxDxH)	Cat. No.
8-High SS Rack	149 x 159 x 469 mm	I 2610-1800
9-High SS Rack	149 x 159 x 527 mm	I 2610-1900
10-High SS Rack	149 x 159 x 586 mm	I 2610-2000
11-High SS Rack	149 x 159 x 644 mm	I 2610-2100
12-High SS Rack	149 x 159 x 703 mm	I 2610-2200
13-High SS Rack	149 x 159 x 761 mm	I 2610-2300

Boxes not included.

Upright freezer racking for 15 ml and 50 ml centrifuge tubes
Stainless Steel (SS) racks for upright freezers, for the direct storage of 15 ml or 50 ml centrifuge tubes. Saves the time of transferring the tubes to/from storage boxes.

Upright Freezer Racks for 15 ml & 50 ml Tubes			
Description	Drawers	Dimensions (WxDxH)	Cat. No.
60-Place SS Rack for 15 ml Tubes	1	140 x 419 x 126 mm	I 2615-1000
120-Place SS Rack for 15 ml Tubes	2	140 x 419 x 252 mm	I 2615-3600
60-Place SS Rack for 50 ml Tubes	2	140 x 419 x 252 mm	I 2650-3600
78-Place SS Rack for 50 ml Tubes	2	140 x 559 x 252 mm	I 2650-2600

Image for illustrative purposes only to show storage of 15ml and 50ml tubes. Tubes not supplied.



The StarStore 100 storage boxes to fit the racks above are on page 121



Stainless Steel Freezer Racking



Freezer racks for plates

Stainless Steel (SS) racks for upright freezers, ideal for storing a variety of plates. The racks have handles on either end, plus locking bars to prevent the plates slipping out.

Upright Freezer Racks for Micro-Titreplates				
Description	Plates*	Plates* with lid	Dimensions (WxDxH)	Cat. No.
10 Compartment SS Rack	80	70	140 x 467 x 233 mm	I2652-0957
10 Compartment SS Rack, Extended	120	96	140 x 467 x 280 mm	I2652-1157
12 Compartment SS Rack	96	84	140 x 559 x 233 mm	I2662-0957
12 Compartment SS Rack, Extended	144	112	140 x 559 x 280 mm	I2662-1157

*Approx. number of standard sized plates

Size of each aperture (WxDxH): 90 x 132 x 113 mm (Extended Racks 136 mm high).

Aluminium Freezer Racking



Flexibility and freedom for your freezer!

These aluminium racks are recommended for all applications where a flexible storage solution is needed. The adjustable shelves allows the rack to be used for all heights of storage boxes with a maximum footprint of 138 x 138 mm.

Each rack is supplied with the number of shelves stated in the table below and a locking rod for securing the boxes in the rack. Additional shelves are available separately so you have the flexibility of purchasing only the shelves that you need, according to the number and height of the boxes you want to store in your chest freezer.

Flexible Chest Freezer Racks for Cryo-Storage Boxes			
Description	Shelves	Dimensions (WxDxH)	Cat. No.
Flexible Rack for Chest Freezers	1	145 x 140 x 340 mm	I2603-0110
Flexible Rack for Chest Freezers	2	145 x 140 x 395 mm	I2603-0112
Flexible Rack for Chest Freezers	2	145 x 140 x 450 mm	I2603-0114
Flexible Rack for Chest Freezers	2	145 x 140 x 505 mm	I2603-0116
Flexible Rack for Chest Freezers	3	145 x 140 x 560 mm	I2603-0118
Flexible Rack for Chest Freezers	3	145 x 140 x 615 mm	I2603-0120
Flexible Rack for Chest Freezers	4	145 x 140 x 670 mm	I2603-0122
Flexible Rack for Chest Freezers	4	145 x 140 x 725 mm	I2603-0124
Extra Shelf for Flexible Racks	1		I2603-0130



www.starlab.click/frezeracking

Smart Instruments

Easy to use!

Smart, practical instruments which are robust and reliable,
and fit on any laboratory bench.



compact

versatile

reliable

MIXER HC 138–139

ASPIRATOR 140–142

MIXERS

Microplate Mixer 143
 Rotator Mixer RM-Multi 1 144
 Vortex 145
 Vortex IR 146
 Tube Roller 147

SHAKERS

Orbital Shaker 148
 Rocking & Rocking 3D Shaker 149

STIRRERS

Magnetic Stirrer 150
 Magnetic Stirrer with Heating 150

DRY BATH INCUBATORS

Mini Dry Bath 151
 Single & Dual Block Dry Bath 152

CENTRIFUGES

Mini Fuge 153
 Plate Centrifuge 154

PCR CABINETS

Airclean® PCR Cabinets 155–156

Mixer HC



Mixing. Heating. Cooling. - All combined in one unit to speed up your daily tasks

The Mixer HC is suitable for a wide range of applications due a selection of exchangeable thermoblocks (sold separately) available for all commonly used vials and plates. The powerful motor mixes up to 1500 rpm while the precise thermal element heats samples up to 99 °C or cools them down as far as 13 °C below room temperature. The Mixer HC is very easy to use due to intuitive setting of parameters and simple programming. The robust construction despite its small footprint makes the Mixer HC your new companion for your daily lab work.

Mixer HC features

- ▶ Mixing, heating and cooling combined in one instrument
- ▶ Nine exchangeable thermoblocks for maximum flexibility (sold separately)
- ▶ Easy operation due to clear menu navigation and simple parameter setting
- ▶ INTERVAL MIX function for alternating between mixing and resting
- ▶ PROGRAM mode for creation of individual protocol
- ▶ SHORT MIX function for instant mixing at the push of a button
- ▶ 2-year warranty



Exchangeable Thermoblocks for the Mixer HC

Nine different thermoblocks for a wide range of tube and plate formats are available.

Thermoblock features

- ▶ Exchangeable thermoblocks for maximum flexibility
- ▶ Automatic thermoblock recognition simplifies exchange between blocks
- ▶ Precise temperature control and broad temperature range for reliable and reproducible sample preparation

Mixer HC		
Description	Pack Size	Cat. No.
Mixer HC	1	S8012-0000
Accessories		
Thermoblock 24 x 0.5 ml Microcentrifuge Tubes ¹⁾	1	S8012-0010
Thermoblock 24 x 1.5 ml Microcentrifuge Tubes ²⁾	1	S8012-0011
Thermoblock 24 x 2.0ml Microcentrifuge Tubes Ø 11mm ²⁾	1	S8012-0012
Thermoblock 24 x 2.0ml Microcentrifuge Tubes Ø 12mm ²⁾	1	S8012-0013
Thermoblock 8 x 5.0 ml Preparation Tubes	1	S8012-0014
Thermoblock 8 x 15 ml Conical Centrifuge Tubes	1	S8012-0015
Thermoblock 4 x 50 ml Conical Centrifuge Tubes	1	S8012-0016
Thermoblock 24 x 1.5 ml - 2.0 ml cryogenic tubes	1	S8012-0017
Thermoblock for Micro/Deepwell Plates, with Lid	1	S8012-0018
Adapter Plate 96 x 0.2 ml (for Thermoblock S8012-0018)	1	S8012-0019
ISO-Rack for 24 x 0.5 ml Microcentrifuge Tubes	1	S8012-0020
ISO-Rack for 24 x 1.5 / 2.0 ml Microcentrifuge Tubes	1	S8012-0021

¹⁾ Iso-Rack S8102-0020 for 0.5 ml microcentrifuge tubes included.

²⁾ Iso-Rack S8012-0021 for 1.5/2.0 ml microcentrifuge tubes included.

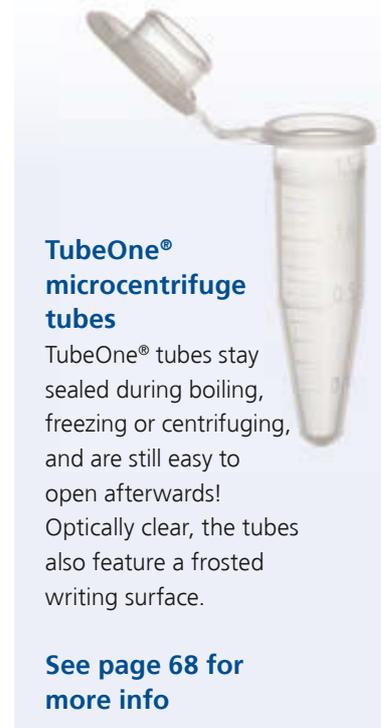


The Iso-Rack – Easy handling of multiple samples

Ideal for time-critical applications and high throughput sample preparation, the Iso-Rack holds 24 tubes that can be transferred into a block in a matter of seconds.

Available for 0.5 ml and 1.5/2.0 ml microcentrifuge tubes.

Technical specifications	
Temperature control range	
Thermoblocks for microcentrifuge tubes	13 °C below room temperature to 99 °C
Thermoblocks for microplates / deepwell plates	10 °C below room temperature to 99 °C
Mixing frequencies for thermoblocks	
0.5 ml microcentrifuges tubes	300 - 1500 1/min
1.5 / 2.0 ml microcentrifuges tubes	300 - 1400 1/min
Microplates / deepwell plates	300 - 800 1/min when loading > 200 g
15 ml & 50 ml conical centrifuges tubes	300 - 750 1/min
5.0 ml preparation tubes	300 - 750 1/min
Cryogenic tubes	300 - 1400 1/min
Type of movement	Orbital (3 mm)
Operation	Mixing, temperature control, simultaneous mixing and temperature control
Cooling rate	2 to 3 °C/min
Heating rate	5 °C/min
Timer	1 min to 99:59 hours, infinitely adjustable
General Unit Specifications	
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	90 W
Operating temperature	4 to 35 °C
Dimensions (W x D x H)	220 x 250 x 125 mm
Interfaces	RS-232, Sub-D9 male
Weight	3.2 kg
Permissible Relative Humidity	70 % max.



TubeOne® microcentrifuge tubes

TubeOne® tubes stay sealed during boiling, freezing or centrifuging, and are still easy to open afterwards! Optically clear, the tubes also feature a frosted writing surface.

See page 68 for more info

www.starlab.click/mixerhc 

Aspirator



CE

Hand controllers without any loss of performance!

The STARLAB Aspirator is designed for safe and comfortable aspiration of fluids. The vacuum level and suction power is adjustable in eight steps, ranging from 150 to 850 mbar for safe and reproducible working. The chemically-resistant pump automatically switches on/off to reduce noise level in the workplace.

The ergonomically-designed hand controller is fully autoclavable. Collection containers are available in two options; 4 L polypropylene and 2 L glass bottles. Additionally, the Aspirator can be used as a mobile vacuum source for sterile filtration and solid phase extraction.

Product features

- ▶ Chemically-resistant, high performance pump with long service life
- ▶ The powerful pump can operate two hand controllers without any loss of performance
- ▶ Ergonomic, fully autoclavable hand controller with flow through suction tube for quick yet safe action
- ▶ Auto ON-OFF pump switch with low noise emission for a quieter working environment
- ▶ Hydrophobic filter prevents contamination of environment and provides overflow protection
- ▶ Collection bottles made from polypropylene or coated glass can be autoclaved with filters attached for safe handling
- ▶ 1-year warranty

Well prepared!

Best solution

Our Aspirator and our CytoOne® Bottle Top Filtration Units provide the perfect combination for sterile filtration of cell culture solutions.

Product features

- ▶ Fastest filtration system in the market
- ▶ 0.2 µm PES membrane
- ▶ Low protein binding
- ▶ Easy handling
- ▶ STARLAB quality guaranteed



www.starlab.click/cytoone





The functional, ergonomically-designed hand controller is fully autoclavable. Pressing the lever allows fine adjustment of the suction power and permanent suction can also be enabled. The continuous tubing prevents contamination of the interior of the hand controller so only the tubing needs cleaning, not the hand controller itself. Adapters for pipettes and pipette tips (200, 300 and 1000 μ l) and a wall mount are supplied with the hand controller.



Experience workplace convenience with the functional stainless stand (N2400-9004) and the single-channel adapter with ejector for 200 μ l pipette tips.

The 8-channel adapter for 200 μ l and 300 μ l pipette tips is the perfect choice for working with cell-culture plates.



Autoclavable, self-sealing quick couplings allow safe decontamination of biological risk material.

2L glass bottle offers the highest chemical resistance for working with aggressive disinfectants.

The high performance pump allows the simultaneous use of an additional hand controller.

Aspirator, including 4L PP Bottle and Hand Controller		
Description	Pack Size	Cat. No.
Aspirator incl. 4l bottle & controller	1	N2400-9000
Accessories		
Hand Controller for Aspirator ¹⁾	1	N2400-9001
1-Channel Tip Adapter for Controller	1	N2400-9002
8-Channel Tip Adapter for Controller ²⁾	1	N2400-9003
Stand for Hand Controller	1	N2400-9004
Tubing for Hand Controller, 2.5 m	1	N2400-9005
Connection Kit for Second Hand Controller	1	N2400-9006
Protection Filter with Connective Tubing	1	N2400-9007
Quick Coupling Hand Controller to Bottle	1	N2400-9008
Quick Coupling Bottle to Pump	1	N2400-9009
4L PP Bottle with Filter and Inlet Pipe	1	N2400-9010
4L PP Bottle with Screw Cap	1	N2400-9011
2L Glass Bottle with Filter & Inlet Pipe	1	N2400-9012
Adapter for 2L Glass Bottle	1	N2400-9013
Mobile Underframe	1	N2400-9014
Tool for Diaphragm Change	1	N2400-9015

¹⁾ Includes one adapter for pipettes, one adapter for pipette tips, a wall mount and 2.5m of tubing. ²⁾ Includes a stand.

Technical specifications	
Max. pumping speed	16.7 l/min
Ultimate vacuum (absolute)	150 mbar
Adjustable range of vacuum	150 - 850 mbar
Max. permissible inlet/outlet pressure	1.1 bar
Max. installation altitude	2000 m above sea level
Noise level	45 dB(A)
Power supply	230 V + 10 %, 50/60 Hz
Max. power consumption	40 W
Operating temperature	10 to 40 °C
Relative humidity	30 - 85 %
Dimensions (W × D × H)	408 × 194 × 500 mm
Weight	7.3 kg

Aspirator Accessories



N2400-9001



N2400-9002



N2400-9003



N2400-9004



N2400-9005



N2400-9006



N2400-9007



N2400-9008



N2400-9009



N2400-9010



N2400-9011



N2400-9012



N2400-9013
(Essential for use with N2400-9012)



N2400-9014

www.starlab.click/aspirator



Microplate Mixer



Plate not included.



Compact and versatile!

This microplate mixer is ideal for the mixing and shaking of any skirted plate (PCR, Cell Culture, Deepwell, Microtitre and Microplates). The mixer can hold either one or two plates, depending on the attachment being used, and can also mix tubes with the special tube adapter accessories. The stepless, variable vibration speed is excellent for applications such as the resuspending of pellets. The small footprint saves space on your bench.

Product features

- ▶ Suitable for use with all skirted plates with SBS footprint
- ▶ Compact design
- ▶ Easy to use
- ▶ Speed control
- ▶ Various accessories for microtitre plates and tubes
- ▶ 2-year warranty

Technical specifications	
Speed Range	0 – 1500 rpm ¹⁾
Max. Load	0.5 kg
Type of movement	orbital
Orbital Diameter	4.5 mm
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	20 W
Dimensions (W × D × H)	150 × 260 × 80 mm
Weight	3 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %

¹⁾ 1500 rpm is max. speed with all attachments except for N2400-8042, the max. speed for this adapter is 1000 rpm.

Microplate Mixer		
Description	Pack Size	Cat. No.
Microplate Mixer	1	N2400-8040
Accessories		
Attachment for One Plate	1	N2400-8041
Attachment for Two Plates	1	N2400-8042
Microplate Mixer Adapter Plate (for use with N2400-6012 and N2400-6013)	1	N2400-8043
Tube Adapter for 15 x 1.5/ 2.0ml Tubes ¹⁾	1	N2400-6012
Tube Adapter for 8 x 15ml Centrifuge Tubes ¹⁾	1	N2400-6013

¹⁾ N2400-6012 and N2400-6013 can only be used as an attachment in combination with N2400-6015. Microplate Mixer is supplied with an attachment for one plate (N2400-8041) as shown in main image. N2400-8041 and N2400-8042 suitable for use with all skirted SBS footprint plates (127.8 x 85.5 mm). N2400-6012 and N2400-6013 can also be used with the Vortex (page 145) in combination with its adapter N2400-6015.

Deepwell and Microplates



See our range of deepwell and microplates on pages 92–93.

Microplate Mixer Accessories



N2400-8041



N2400-8042



N2400-8043



N2400-6012



N2400-6013

www.starlab.click/microplatemixer 

Rotator Mixer RM Multi-1



Mix it up!

Compact and multifunctional, the programmable Rotator Mixer RM Multi-1 provides thorough mixing of microtubes with consistent results. The rotator is designed for mixing applications including cell suspensions, incubations, extraction procedures, gel washing and precipitations. Suitable for use in cold rooms.

RM Multi-1 has three different motions – vertical rotation, reciprocal motion and vibration – which can be used separately or combined, as well as variable speed and timer function.

Supplied with a standard platform for 26 tubes up to 15 mm diameter (eg. 1.5 ml, 2.0 ml and 15 ml tubes), STARLAB's RM Multi-1 is a practical aid for your daily mixing tasks. An optional platform, for five tubes up to 30 mm diameter (eg. 50 ml tubes) and 12 tubes up to 15 mm diameter, is also available.

Product features

- ▶ Effective vertical mixing
- ▶ Programmable
- ▶ Three different motions
- ▶ Variable speed and timer
- ▶ Easy to operate
- ▶ LCD display
- ▶ Low profile and small footprint
- ▶ Capacity of up to 26 sample tubes
- ▶ 2-year warranty

Vertical Rotation 360° vertical motion for a time period 0–250 seconds, or non-stop	Reciprocal Motion Direction of platform changes in turns (turning angle 1–90° for 0–250 seconds, or non-stop)	Vibration Direction of platform changes in turns (see reciprocal motion) plus additional vibration (turning angle 1–5° for 1–5 seconds)	Pause Direction of platform changes in turns, including a temporary motion stop of 1–5 seconds (only in conjunction with reciprocal motion)

Technical specifications	
Speed Range	1 – 100 rpm
Max. Load	0.5 kg
Timer	Auto switch-off: 1 min – 24 hours Vertical or Reciprocal Mode: 1 – 250 seconds, or non-stop Vibration mode: 1 – 5 seconds
Dimensions (W × D × H)	365 × 195 × 155 mm
Weight	1.8 kg
Permissible Ambient Temperature	4 – 40 °C
Output	1.25 A

Rotator Mixer RM Multi-1		
Description	Pack Size	Cat. No.
Rotator Mixer RM Multi-1	1	N2400-5000
Accessories		
Platform for 5 x 30 mm and 12 x 15 mm diam. tubes	1	N2400-5103
Replacement Platform for 26 tubes up to 15 mm diameter	1	N2400-5104

www.starlab.click/rotatormixer





Vortex

Simple and smart!

An economical vortex for quick and convenient mixing of small sample volumes. Supplied with a universal cup for tubes or vessels up to 30 mm, the vortex also has a range of accessories to allow the mixing of various tube sizes as well as skirted plates.

The variable speed provides the gentle mixing of samples up to higher speeds for vigorous mixing and resuspending cells or pellets. Anti-slip feet ensures stability on the bench during mixing.

Product features

- ▶ Variable speed control
- ▶ Two operating modes: continuous and touch
- ▶ Anti-slip feet
- ▶ Wide range of accessories
- ▶ Small footprint
- ▶ 2-year warranty

Technical specifications	
Speed Range	0 – 2500 rpm ¹⁾
Max. Load	0.5 kg
Type of movement	Orbital
Orbital Diameter	4 mm
Operation	Two: touch and continuous
Speed setting	analogical
Unit Material	Epoxy painted zinc alloy
Safety Device	Electronic Protection Degree CEI EN 60529: IP42
Power supply	110 – 230 V, 50/60 Hz
Max. power consumption	60 W
Dimensions (W x D x H)	127 x 130 x 160 mm
Weight	3.5 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %

¹⁾ 2500 rpm max. speed only with Universal Cup attachment supplied with unit. When using the optional adapters, max. speed is 1300 rpm.

Vortex		
Description	Pack Size	Cat. No.
Vortex	1	N2400-6010
Accessories		
Vortex Replacement Universal Cup	1	N2400-6011
Tube Adapter for 15 x 1.5/ 2.0ml Tubes ¹⁾	1	N2400-6012
Tube Adapter for 8 x 15ml Centrifuge Tubes ¹⁾	1	N2400-6013
Adapter for 96-Well Microplates	1	N2400-6014
Vortex Adapter Plate	1	N2400-6015

¹⁾ N2400-6012 and N2400-6013 can only be used as an attachment in combination with N2400-6015. N2400-6011 is supplied with an universal cup for tubes (N2400-6011) as shown in main image. N2400-6012 and N2400-6013 can also be used as an attachment on the Microplate Mixer (see page 143) in combination with its adapter N2400-8043.

Vortex Accessories



N2400-6012



N2400-6013



N2400-6014
(Plate not included)



N2400-6015

Vortex IR

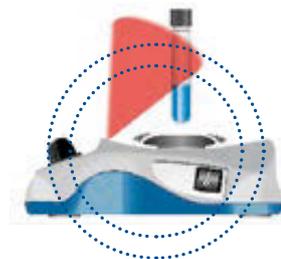


Simple, but revolutionary!

The Vortex IR incorporates an optional infrared (IR) motion detector which automatically starts the vibration when a tube crosses the sensor field. The variable vibration speed allows low speeds for the gentle mixing of samples or higher speeds for vigorous vortex mixing and the resuspending of cells or chemical pellets.

Product features

- ▶ Ergonomic, low-profile design and anti-slide feet for bench stability
- ▶ 'Sensor' mode: infrared detects the presence of the test tube and automatically starts vibration
- ▶ 'Continuous' mode: with the possibility to combine with the wide range of accessories to suit the most diverse of needs
- ▶ No pressure needed to maintain vibration
- ▶ Use in cold rooms or incubators
- ▶ 2-year warranty



The Vortex IR can be set to Sensor Mode so the infrared detects the presence of the tube and automatically starts vibrating

Technical specifications	
Speed Range	0 – 3000 rpm ¹⁾
Max. Load	0.5 kg
Type of movement	Orbital
Orbital Diameter	4.5 mm
Operation	Two: touch and continuous
Speed setting	Analogical
Unit Material	Epoxy painted zinc alloy
Safety Device	Electronic Protection Degree CEI EN 60529: IP42
Power supply	90 – 260 V, 50/60 Hz
Max. power consumption	15 W
Dimensions (W x D x H)	127 x 130 x 160 mm
Weight	2.4 kg
Permissible Ambient Temperature	4 - 40°C
Permissible Relative Humidity	< 80 %
Output	1.25 A
Speed Control	Electronic
Temperature range	4 - 40 °C

¹⁾ **NOTE:** Max. speed 3000 rpm only when using the cup head supplied with the unit. Max. speed use for all other attachments is 1200 rpm, except for N2400-1004 attachment for plates, where max. speed use is 800 rpm.

Vortex IR		
Description	Pack Size	Cat. No.
Vortex IR	1	N2400-0001
Accessories		
Foam Attachment for 19 x 1.5 ml Tubes	1	N2400-1001
Foam Attachment for 5 x 15 ml Tubes	1	N2400-1002
Foam Attachment for 5 x 50 ml Tubes	1	N2400-1003
Foam Attachment for Microtitre Plates	1	N2400-1004
Universal Rubber Attachment (50 mm diam.)	1	N2400-1005
Customizable Soft Foam Attachment	1	N2400-1006
Replacement Cup for Single Test Tube	1	N2400-1008

The Vortex IR is supplied with a cup (N2400-1008) for single test tube. (as shown in main image)

Vortex IR Accessories



N2400-1001



N2400-1002



N2400-1003



N2400-1004
(Plate not included)



N2400-1005



N2400-1006

Tube Roller



Rock and roll!

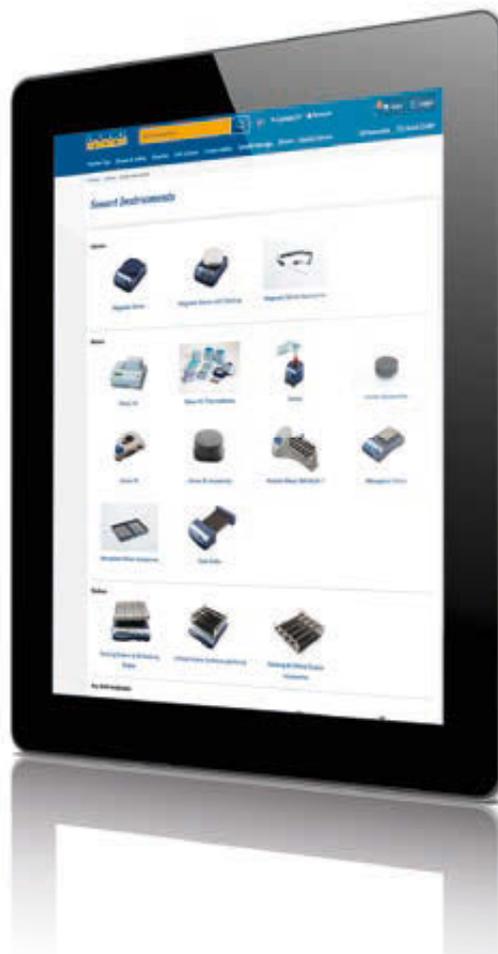
Simultaneous rolling and tilting movements ensures thorough mixing. The tube roller is built for continuous operation and is suitable for applications such as hybridisation. The sturdy and robust construction and variable speed control will make this your tube roller of choice.

Product features

- ▶ Simultaneous rolling and tilting motion
- ▶ Continuous operation
- ▶ Speed control
- ▶ Six rollers to hold a load up to 4 kg
- ▶ 2-year warranty

Technical specifications	
Speed Range	0 – 70 rpm
Max. Load	4 kg
Type of movement	Orbital
Unit Material	Polyoxymethylene
No. of rollers	6
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	25 W
Dimensions (W x D x H)	260 x 460 x 120 mm
Weight	4.5 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %
Size of rollers	280 x 30 mm

Tube Roller		
Description	Pack Size	Cat. No.
Tube Roller	1	N2400-7010



www.starlab.click/smartinstruments 

Orbital Shaker (without platform)



Image shows N2400-8030 with N2400-8011 (platform sold separately)



Shake it all about!

The orbital shaker has two operating modes: continuous or timer. The digital speed and timer displays ensure ease of use. It provides the orbital shaking of your samples from a gentle agitation up to a vigorous orbital motion. The orbital shaker is suitable for a wide range of molecular biology or immunology applications.

Two platforms are available and sold separately so you can customise your shaker to your requirements.

Product features

- ▶ LCD displays for speed and time
- ▶ Two operating modes: continuous and timer
- ▶ Supplied without a platform - choice of two platforms
- ▶ Holds load up to 7.5 kg
- ▶ Small footprint
- ▶ 2-year warranty

Technical specifications	
Speed Range	100 – 500 rpm
Max. Load	7.5 kg
Type of movement	Orbital
Orbital Diameter	10 mm
Operation	Two: touch and continuous
Display	LCD
Platform Dimensions	300 x 300 mm
RS232-Interface	Yes
Timer	1 – 1199 mins (19 hrs 59 mins)
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	30 W
Dimensions (W x D x H)	420 x 370 x 100 mm
Weight	13.5 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %

Orbital Shaker (without platform)		
Description	Pack Size	Cat. No.
Orbital Shaker (without platform)	1	N2400-8030
Accessories		
Universal Platform with Clamping Rolls	1	N2400-8011
Universal Platform with Rubber Mat and Bungee Cords	1	N2400-8021

IMPORTANT: N2400-8030 is NOT supplied with a platform. A platform must be purchased separately. N2400-8011 and N2400-8021 can also be used on the Rocking & 3D Rocking Shaker (N2400-8010 / N2400-8020) page 149.



N2400-8011



N2400-8021



www.starlab.click/orbitalshaker

Rocking Shaker & 3D Rocking Shaker



Shaken, not stirred!

STARLAB offers two similar shakers but with different movements: see-saw rocking or 3D. Both shakers have a fixed tilt angle and provide two shaking modes: continuous or timer. The digital speed and timer displays ensure ease of use. Both shakers are supplied with a platform with bungee cords.

An alternative platform with clamping rolls is available separately, making these shakers suitable for a wide range of applications including blotting, cultivation and incubation techniques.

Product features

- ▶ See-saw rocking or 3D mixing
- ▶ LCD displays for speed and time
- ▶ Two operating modes: continuous and timer
- ▶ Alternative platform available
- ▶ Small footprint
- ▶ 2-year warranty

Technical specifications		
Model	Rocking Shaker	3D Rocking Shaker
Speed Range	10 – 70 rpm	10 – 70 rpm
Max. Load	10 kg	5 kg
Type of movement	See-Saw Rocking	3D Mixing
Operation	Two: touch and continuous	Two: touch and continuous
Display	LCD	LCD
Platform Dimensions	300 x 300 mm	300 x 300 mm
Tilt angle	9 °	9 °
Timer	1 – 1199 mins (19 hrs, 59 mins)	1 – 1199 mins (19 hrs, 59 mins)
Power supply	100 – 240 V, 50/60 Hz	100 – 240 V, 50/60 Hz
Max. power consumption	40 W	50 W
Dimensions (W x D x H)	370 x 420 x 106 mm	370 x 420 x 200 mm
Weight	9 kg	9 kg
Permissible Ambient Temperature	4 – 40 °C	4 – 40 °C
Permissible Relative Humidity	< 80 %	< 80 %

Rocking Shaker & 3D Rocking Shaker		
Description	Pack Size	Cat. No.
Rocking Shaker	1	N2400-8010
3D Rocking Shaker	1	N2400-8020
Accessories		
Universal Platform with Clamping Rolls	1	N2400-8011
Universal Platform with Rubber Mat and Bungee Cords	1	N2400-8021

N2400-8010 and N2400-8020 are both supplied with a universal platform with rubber mat and bungee cords (N2400-8021) as shown in main image. N2400-8011 and N2400-8021 can also be used on the orbital shaker (N2400-8030) on page 148.



N2400-8011



N2400-8011

Magnetic Stirrer



Simple but effective!

Ideal for applications such as buffer preparation, this value for money magnetic stirrer has a compact footprint. Easy to use and built to last, the sturdy construction guarantees reliable stirring with the adjustable stirring speed. The unit is supplied with a 40 mm magnetic stir bar.

Technical specifications	
Speed Range	100 – 1500 rpm (10 rpm steps)
Max. stirring volume	3 L
Plate Diameter	135 mm
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	15 W
Dimensions (W x D x H)	155 x 215 x 75 mm
Weight	0.9 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %

Product features

- ▶ Speed control
- ▶ Includes 40 mm stir bar
- ▶ Compact design
- ▶ 2-year warranty

Magnetic Stirrer		
Description	Pack Size	Cat. No.
Magnetic Stirrer	1	N2400-2010

Magnetic Stirrer with Heating



Stir up some heat!

This magnetic stirrer has very fast temperature ramping to help save your time. The ceramic-coated plate ensures an even temperature and has a high resistance to chemicals. It is ideal for many applications including the preparation of solvents at high temperatures. Supplied with a 40 mm magnetic stir bar, the stirrer is easy to use and has a clear LED display showing temperature and speed.

Technical specifications	
Speed Range	100 – 1500 rpm
Max. stirring volume	3 L
Plate Diameter	135 mm
Power supply	200 – 240 V, 50/60 Hz
Dimensions (W x D x H)	155 x 215 x 75 mm
Weight	1.4 kg
Permissible Ambient Temperature	4 – 40 °C
Permissible Relative Humidity	< 80 %
Temperature range	Ambient to 280 °C with 1 °C increments

Product features

- ▶ Speed and temperature controls
- ▶ Includes 40 mm stir bar
- ▶ Fast temperature ramping
- ▶ LED display
- ▶ Hotplate safety warning alert
- ▶ Chemically-resistant ceramic-coated plate
- ▶ 2-year warranty

Magnetic Stirrer with Heating		
Description	Pack Size	Cat. No.
Magnetic Stirrer with Heating	1	N2400-3010
Accessories		
Temperature sensor PT1000	1	N2400-3011

Mini Dry Bath Incubator



Small, but powerful!

A small but powerful unit suitable for a range of applications. The digital microprocessor controls the preset temperature of the metal block and the fast ramping of temperature saves your valuable time. Supplied with a transparent lid for temperature uniformity, the unit can also be used as a water bath.

Product features

- ▶ Microprocessor controlled temperature and timer
- ▶ Digital display
- ▶ Easy, user calibration
- ▶ Small footprint
- ▶ Can also be used as a water bath
- ▶ 2-year warranty

Technical specifications	
Unit Material	Block Material: Aluminium alloy. Heating Chamber Material: Moulded aluminium alloy coated with PTFE
Safety Device	Leak-proof heating chamber and over-heating alarm protection
Controller	Digital microprocessor
Display	Digital
Temp. Control Range - Dry Bath	5 °C above ambient to 100 °C
Temp. Control Range - Water Bath	5 °C above ambient to 90 °C
Temperature increase	0.1 °C
Temperature calibration	Yes
Temperature uniformity	±0.2 °C at 37 °C
Temperature accuracy	±0.25 °C at 37 °C
Water bath volume	85 ml (approx.)
Fuse	2 A
Timer	0–999 mins, continuous
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	50 W
Operating temperature	Ambient to 40 °C
Dimensions (W × D × H)	125 × 153 × 97 mm
Weight	0.6 kg

Mini Dry Bath Incubator		
Description	Pack Size	Cat. No.
Mini Dry Bath Incubator ¹⁾	1	N2400-4020
Accessories		
Metal Block for 32 x 0.2 ml PCR Tubes	1	N2400-4021
Metal Block for 12 x 0.5 ml Tubes	1	N2400-4022
Metal Block for 12 x 1.5 ml Tubes (Conical)	1	N2400-4023
Metal Block for 12 x 1.5/2.0 ml Tubes (V-Shaped)	1	N2400-4024
Metal Block for 6 x 15 ml Tubes	1	N2400-4025
Metal Block for 2 x 50 ml Tubes	1	N2400-4026

¹⁾ Metal Blocks are not included and must be purchased separately.

Metal Blocks for Mini Dry Bath



All metal blocks are supplied with a screw-in handle for easy insertion and removal

www.starlab.click/drybath 

Block Dry Bath Systems (Single)



Dry bath, wet bath!

Designed for a wide variety of applications. Additional function of a water bath. Available as single or dual block units, these systems offer great value and convenience for the user.

Product features

- ▶ Microprocessor controlled timer and temperature
- ▶ Digital display
- ▶ Easy, user calibration
- ▶ Single or dual block units available
- ▶ Can also be used as a water bath
- ▶ 2-year warranty

Technical specifications		
Model	Dry Bath System (Single Block)	Dry Bath System (Dual Block)
Unit Material	Aluminium	Aluminium
Safety Device	Leak-proof heating chamber	Leak-proof heating chamber
Controller	Digital Microprocessor	Digital Microprocessor
Display	Digital	Digital
Temperature increase	0.1 °C	0.1 °C
Temperature calibration	yes	yes
Temperature uniformity	±0.2 °C	±0.2 °C
Temperature accuracy	±0.2 °C	±0.2 °C
Water bath volume	400 ml	800 ml
Block Dimensions	80 x 105 x 50 mm	80 x 105 x 50 mm (except N2400-4108)
Timer	0–999 minutes	0–999 minutes
Power supply	220 V	220 V
Operating temperature	5 °C above ambient to 150 °C	5 °C above ambient to 150 °C
Dimensions (W x D x H)	200 x 290 x 80 mm	200 x 290 x 80 mm
Weight	2.6 kg	2.8 kg

Block Dry Bath Systems (Single)		
Description	Pack Size	Cat. No.
Block Dry Bath Systems (Single)	1	N2400-4001
Block Dry Bath Systems (Dual)	1	N2400-4002
Accessories		
Metal Block for 64 x 0.2 ml Tubes	1	N2400-4100
Metal Block for 20 x 1.5 ml or 2.0 ml Tubes	1	N2400-4101
Metal Block for 12 x 15 ml Centrifuge Tubes	1	N2400-4102
Metal Block for 4 x 50 ml Centrifuge Tubes	1	N2400-4103
Metal Block for 20 x 1.5 ml Tubes (V-Bottom)	1	N2400-4104
Metal Block for 20 x 0.5 ml Tubes	1	N2400-4105
Metal Block for 20 Tubes up to 13 mm Diameter	1	N2400-4106
Metal Block for 96-Well PCR Plates (for use with Single Block system)	1	N2400-4107
Metal Block for 96-Well PCR Plates (for use with Dual Block system)	1	N2400-4108

Metal Blocks for Single & Dual Block Dry Bath Systems



N2400-4100



N2400-4101



N2400-4102



N2400-4103



N2400-4104



N2400-4105



N2400-4106



N2400-4107



N2400-4108



All metal blocks are supplied with a screw-in handle for easy insertion and removal

Mini Fuge Plus



Get in a spin!

Small enough to fit on your benchtop for your own personal use. The strip rotor accepts either 16 single or two 8-strip 0.2 ml tubes; the standard rotor accepts six 0.5 ml or 1.5 / 2.0 ml microcentrifuge tubes. The rotors can be changed easily and quickly. The centrifugation process can be observed through the transparent cover.

Product features

- ▶ Supplied with two rotors: one for use with 0.5 ml to 2.0 ml microcentrifuge tubes, and one for use with 0.2 ml PCR tubes
- ▶ Quick and easy rotor change
- ▶ Starts and stops in seconds
- ▶ Small footprint
- ▶ 1-year warranty

Technical specifications	
Speed	6000 rpm
RCF	2000 x g
Permissible relative humidity	>80%
Fuse	0.35 A
Power supply	100 – 240 V, 50/60 Hz
Operating temperature	5 to 40 °C
Dimensions (W x D x H)	150 x 150 x 116 mm
Weight	1.2 kg

Mini Fuge		
Description	Pack Size	Cat. No.
Mini Fuge Plus	1	N2631-0017

The minicentrifuge is supplied with two rotors – ‘Standard’ for use with 1.5/2.0 ml tubes, and ‘Strip’ for use with 0.2 ml tubes, plus six adapters to convert the Standard rotor for use with 0.5 ml tubes. An allen key for changing the rotors is also supplied.



PCR Strips

See our range of PCR strip tubes and caps. Strips with attached caps or separate tube and cap strips are available.

See pages 79 – 82 for details



Plate Centrifuge



N2631-0018. Optional adapter available for centrifuging 48-well plates and 0.2 ml PCR tubes and strips

You spin me round!

The plate centrifuge makes the safe and quick spin down of droplets and condensation very easy. Just open the lid, insert the plates, close the lid and start. Sealed plates are loaded vertically and surface tension keeps samples in place so there is no danger of spilling samples. The centrifuge accepts all plates up to 25 mm high. An optional adaptor is available for centrifuging 48-well PCR plates and 0.2 ml PCR tubes or strips.

Product features

- ▶ Accommodates two plates
- ▶ Rapid start to stop
- ▶ Use before and after thermal cycling to increase PCR yield
- ▶ Accepts skirted, semi-skirted and non-skirted plates
- ▶ Less than quarter the size of most plate centrifuges
- ▶ Easy cleaning and maintenance
- ▶ 2-year warranty

Technical specifications	
Speed	2500 rpm
RCF	500 × g
Rotor capacity	Two plates, any style, up to 25 mm high
Fuse	0.5 AT
Power supply	230 V, 50/60 Hz
Operating temperature	4 – 30 °C
Dimensions (W × D × H)	190 × 210 × 193 mm
Weight	1.5 kg
Permissible Relative Humidity	< 85%

Plate Centrifuge		
Description	Pack Size	Cat. No.
Plate Centrifuge	1	N2631-0008
Accessories		
Adapter for 1/2 plates, strips and tube	1	N2631-0018

PCR Plates

See our range of skirted, non-skirted and semi-skirted PCR Plates for a wide range of thermal cyclers



See pages 84 – 87 for details



www.starlab.click/platecentrifuge

AirClean® PCR Cabinets

Get results – not background!

AirClean® Systems PCR Workstations are designed as application solutions for the manipulation and amplification of RNA and DNA. Crosscontamination during amplification of RNA and DNA can lead to results that are inaccurate — results that cost you your valuable time and consume expensive reagents!

AirClean® Systems PCR Workstations offer a controlled environment for PCR applications to improve the odds for getting accurate results.

Dead Air Cabinets

These cabinets do not have a filter system. They provide a circulation-free environment with UV light sterilisation.

Laminar Flow Cabinets

Pre- and HEPA filters provide a Class 100 (ISO 5) vertical laminar flow environment in combination with UV light sterilisation.

Product features

- ▶ UVTect™ microprocessor monitors the life of the consumables so you know they are working effectively
- ▶ Polycarbonate design to reflect UV energy
- ▶ Folding sash for full and easy access
- ▶ Fluorescent light
- ▶ UV light
- ▶ Safety auto cut-off of the UV light when the sash is opened
- ▶ One piece construction ensures no UV energy can escape
- ▶ Supplied ready-assembled – just plug and play!



AirClean® PCR Cabinets

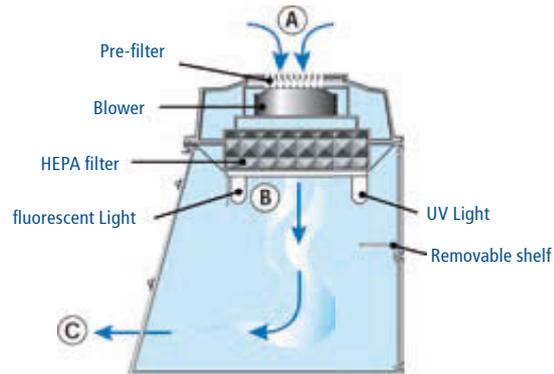


What does the UVTect™ do?

- ▶ UV timer to help save on bulb life
- ▶ UV bulb monitor to check the bulb's effectiveness and alert you when bulb life is getting low. UV bulbs glow purple even when they are not working effectively so with UVTect™, you can always be sure your UV bulb is working effectively
- ▶ HEPA filter monitor to alert you when the filter needs changing
- ▶ Variable speed blower control allows manual adjustment of the airflow to suit work with the most fragile of samples
- ▶ Lab event timer, and time and date display

How the "Laminar Flow" works

The UV light sterilises pipettes, pipette tips, tubes and flasks prior to working. Room air enters at **A**. The air is forced through the pre and HEPA filters to create a laminar flow. The clean, laminar flow air enters the cabinet at **B**, and exits through the sash at **C**.



Dead Air Cabinets		Class 100 Laminar Flow Cabinets	
32" Cabinet	48" Cabinet	32" Cabinet	48" Cabinet

Features and Specifications

UVTect Controller	✓	✓	✓	✓
Lab Event Timer	✓	✓	✓	✓
Pre-Filter	✗	✗	✓	✓
HEPA Filter	✗	✗	✓	✓
HEPA Filter Life Monitor	✗	✗	✓	✓
Variable Speed Blow Control	✗	✗	✓	✓
Air Velocity	n/a	n/a	Digital	Digital
Fluorescent Bulb	✓	✓	✓	✓
UV Bulb	1 x 15 W, 254 nm	2 x 15 W, 254 nm	1 x 15 W, 254 nm	2 x 15 W, 254 nm
UV Light Timer	0 - 60 mins (digital)			
UV Bulb Life Monitor	✓	✓	✓	✓
UV Safety Interlock Switch	✓	✓	✓	✓
Voltage	110 V or 220 V			
Ship Weight (approx)	46 kg	68 kg	57 kg	82 kg
Ext. Dimensions (WxDxH)	813 x 610 x 762 mm	1219 x 610 x 813 mm	813 x 610 x 762 mm	1219 x 610 x 813 mm

Cabinet Ordering Information

PCR Cabinets	N2540-8400	N2540-8500	N2530-8200	N2530-8300
--------------	------------	------------	------------	------------

Accessories Ordering Information

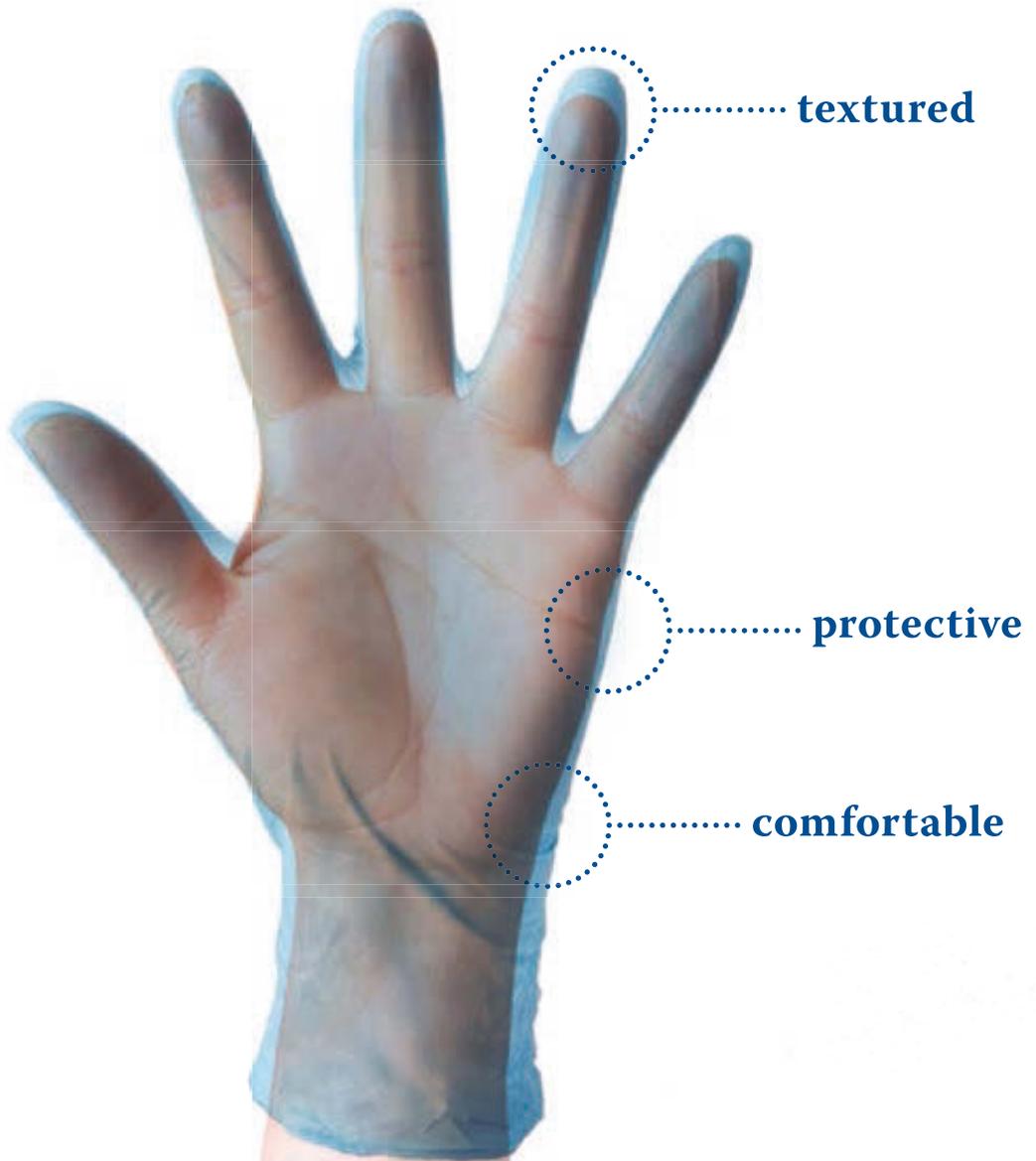
Pre-Filters (Pack of 12)	n/a	n/a	N3942-7500	N3952-7518
HEPA Filters (Each)	n/a	n/a	N3942-7000	N3952-7018*
UV Bulbs (Pack of 4)	N2530-1500	N2530-1500	N2530-1500	N2530-1500
Trolley / Stand	N2520-3200	N2520-4800	N2520-3200	N2520-4800

* two required

Protection

Confidence assured!

Like a second skin.
Our gloves offer maximum comfort and protection.



Disposable gloves

Your Personal Protection	160
Guidelines and Standards	161
StarGuard® Nitrile gloves	162-165
StarGuard® Latex gloves	166
StarGuard® Specifications	167
StarGuardselect	168
Microflex® Nitrile Gloves	169
Glove Box Dispenser	169

Your Personal Protection



Providing comfortable protection from day-to-day hazards

Our range of StarGuard® gloves offers the highest EN safety standards, with three gloves having an **Acceptable Quality Level (AQL) of 0.65**.

All gloves have been tested against a variety of chemicals to **EN374-3: 2003 and EN16523-1: 2015** standards (see *Chemical Breakthrough Times* available separately).



FREE SAMPLE
TRY
before you
BUY
available on request



STARLAB is committed to providing the best hand protection available. Regardless of the application and user preferences, our five StarGuard® disposable gloves offer daily protection in the laboratory without sacrificing comfort.

Choose the StarGuard® glove best suited to your daily demands:

COMFORT – for enhanced nitrile comfort and dexterity

PROTECT – for nitrile strength and durability

PROTECT+ – with extended cuffs for optimal nitrile protection from hazards

SENSITIVE – comfortable nitrile protection that is clinically proven to reduce the potential of contact dermatitis

TOUCH – if you prefer the secure grip and tactile sensitivity of latex

Manufactured to the highest standards

All StarGuard® gloves are manufactured to the highest standards and have been tested and certified by the third-party notified body, TÜV RHEINLAND.

ALL StarGuard® gloves are in compliance with:

- ▶ EC Directive 89/686/EEC, PPE Category III
- ▶ European Medical Device Directive 93/42/EEC, Class I Medical Device
- ▶ EN420 General requirements for protective gloves
- ▶ EN374-1: 2003 Protection against chemicals and micro-organisms
- ▶ EN374-2: 2014 Protection against penetration by micro-organisms
- ▶ EN374-3: 2003 Protection against chemical permeation
- ▶ EN16523-1: 2015 Permeation by liquid chemicals under conditions of continuous contact
- ▶ EN455 Parts 1, 2 & 3 Medical gloves for single use
- ▶ ISO 11193-1 Single-use medical gloves
- ▶ ISO 21171 / ASTM D6124 Determination of removable surface powder
- ▶ ASTM F1671 Protection against penetration by blood-borne pathogens

www.starlab.click/protection

Guidelines and standards

Personal Protective Equipment

In Europe, Personal Protective Equipment (PPE) is either a device, clothing, glove or appliance, worn or held by a person at work, which is designed to protect that person against one or more health and/or safety hazards.

There are three categories of PPE:

- ▶ Category I (Simple Design) – for use against minimal or minor risks
- ▶ Category II (Intermediate Design) – for use against intermediate or reversible risks
- ▶ Category III (Complex Design) – for use against mortal or irreversible risks

PPE meeting the basic requirements of the Directive (89/686/EEC) is considered safe to be sold in Europe, and can be recognised as such by the CE Mark and other relevant information. The type of markings, pictograms and information provided with a particular PPE will vary depending on what the PPE is designed for. Where disposable gloves are concerned, the following is generally used (see table below):



Who's certifying your gloves for PPE Compliance? Where is the Notified Body's ID Number on the box for the gloves you're wearing?

Without a number under the CE mark to identify the Third Party Registrar (eg. 0197 = TUV Rheinland), the glove manufacturer is self-declaring the glove's EN credentials.

Pictograms / EN Standards			
European Standard	Pictogram	Performance Ranking	Description
EN374-2:2014 Micro-organisms (Penetration)		Level 1: AQL of 4.0 Level 2: AQL of 1.5 Level 3: AQL of 0.65	Tested for protection against liquid penetration and micro-organisms. Freedom from holes tested by air or water leak test for Acceptable Quality Level (AQL). PPE Gloves must be at least Level 2.
EN374-3:2003 Chemical Permeation		Level 1: >10 min Level 2: >30 min Level 3: >60 min Level 4: >120 min Level 5: >240 min Level 6: >480 min	Chemical Breakthrough. This pictogram is only shown if a breakthrough time of at least 30 mins has been achieved in at least three of the 12 chemicals specified for this standard. The code letters of those three chemicals are shown underneath the shield. See our website for a copy of the Product Data Sheet which lists these chemicals.
			This pictogram is used if a glove does not pass the test explained above, but it does fulfil at least Level 2 of the penetration test EN374-2:2003. This highlights the limitations of the chemical barrier properties of thin gauge disposable gloves, emphasising they're only designed for incidental splashes. The question mark reminds users that it refers to 'low chemical resistance' or 'waterproof' gloves. However, gloves showing this symbol will often still have excellent resistance to many chemicals other than those on the list of 12 specified.

Penetration vs Permeation

Penetration: The movement of a chemical and/or micro-organism through the material, pinholes or other imperfections of a glove.

Permeation: Gloves do not always act as a barrier to liquids and can sometimes act as a sponge, soaking up the liquids and holding them against the skin. Therefore,

it is necessary to measure the time that the hazardous liquid takes to breakthrough the glove and come in contact with the skin.

StarGuard® COMFORT



LEVEL 3 (AQL 0.65)

Recommended for use when:

- ▶ Work demands dexterity and tactile sensitivity
- ▶ You require a lightweight glove with exceptional fit
- ▶ You want to reduce hand fatigue caused by gloves
- ▶ A combination of comfort and chemical protection is needed
- ▶ Gloves must be approved for food contact according to EU Regulation (EC) No. 1935/2004.

Combating hand fatigue!

Hand fatigue not only severely impacts the work you do today, it can also have long-term ramifications. StarGuard® COMFORT is recognised as an **Ergonomic Certified** glove that provides measurable ergonomic benefits to the user by improving comfort and fit, and minimising the risk factors that may contribute to ergonomic injuries.¹



StarGuard® Comfort

Description	Pack Size	Cat. No.
StarGuard® Comfort, Nitrile Gloves, XS	10 x 250	SG-C-XS
StarGuard® Comfort, Nitrile Gloves, S	10 x 250	SG-C-S
StarGuard® Comfort, Nitrile Gloves, M	10 x 250	SG-C-M
StarGuard® Comfort, Nitrile Gloves, L	10 x 250	SG-C-L
StarGuard® Comfort, Nitrile Gloves, XL	10 x 230	SG-C-XL

*230 gloves per box XL ¹www.us-ergo.com

Enhanced comfort by improved fit

An extremely soft and strong glove that provides improved tactile sensitivity to help reduce the risk of hand fatigue.

- ▶ Certified to minimise the risk of ergonomic hand injuries
- ▶ A thinner-feel nitrile glove, ideal for work that requires great dexterity
- ▶ Larger pack size helps the environment by reducing packing materials and transportation



**PPE Cat. III Complex Design. AQL 0.65
Light Blue Nitrile Glove. Textured Fingers
Length: 245 mm. 250 Gloves per Box***



Improved fit and longer length

StarGuard® COMFORT have snug fitting fingers and are 245 mm long to provide full cover over the wrist.



Comfortable ...
made from soft nitrile for enhanced comfort and tactile sensitivity

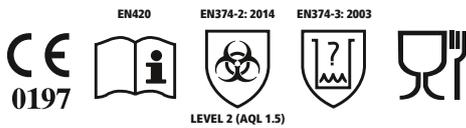


... yet Strong
an extremely soft but strong glove that provides excellent elasticity

www.starlab.click/starguard



StarGuard® SENSITIVE



Accelerator-free hand protection for sensitive skin

A strong, lightweight glove that provides dexterity and comfort during long periods of wear, and is also kind to your hands.

- ▶ Low Dermatitis Potential – ideal for users with sensitive skin
- ▶ Contains no contaminants to interfere with experiments
- ▶ Textured fingers for improved tactile sensitivity
- ▶ Excellent grip in wet conditions



**PPE Cat. III Complex Design. AQL 1.5
Blue Nitrile Glove. Textured Fingers
Length: 250 mm. 200 Gloves per Box**

Recommended for use when:

- ▶ Concerns with glove contaminants interfering with experiments or sensitive products must be eliminated
- ▶ Working in wet conditions
- ▶ The everyday use of small instruments demands a dexterous, lightweight glove
- ▶ Users have concerns regarding hand health
- ▶ Gloves must be approved for food contact according to EU Regulation (EC) No. 1935/2004

Low Dermatitis Potential glove

StarGuard® SENSITIVE gloves have been clinically shown to **reduce the incidence of the redness and itching associated with contact dermatitis.**

They carry the US Food & Drug Administration (FDA) authorised claim for 'Low Dermatitis Potential'. StarGuard® SENSITIVE are extremely strong and comfortable, and an excellent choice for everyday use. You don't have to be susceptible to allergies to appreciate the quality and comfort of these gloves!



Excellent grip in wet conditions

A reduced amount of surfactants used during the manufacture of StarGuard® SENSITIVE results in an improved grip in wet conditions to rival that of latex gloves.

StarGuard® Sensitive		
Description	Pack Size	Cat. No.
StarGuard® Sensitive, Nitrile Gloves, XS	10 × 200	SG-N-XS
StarGuard® Sensitive, Nitrile Gloves, S	10 × 200	SG-N-S
StarGuard® Sensitive, Nitrile Gloves, M	10 × 200	SG-N-M
StarGuard® Sensitive, Nitrile Gloves, L	10 × 200	SG-N-L
StarGuard® Sensitive, Nitrile Gloves, XL	10 × 200	SG-N-XL



Comfortable
A lightweight glove that also provides exceptional strength



200 gloves per box
helps to conserve the environment by reducing packing materials, energy and fuel, and storage space

StarGuard® PROTECT



Strength and durability for reliable protection

A strong and comfortable glove that provides reliable protection against day-to-day laboratory hazards.

- ▶ Combines strength and durability for everyday protection
- ▶ Comfort, tactile sensitivity and consistent grip
- ▶ Excellent chemical splash protection
- ▶ Longer glove length (250 mm) covers the wrist



**PPE Cat. III Complex Design. AQL 0.65
Violet-Blue Nitrile Glove. Textured Fingers
Length: 250 mm. 100 Gloves per Box**

Recommended for use when:

- ▶ Everyday protection requires strength and durability
- ▶ You are looking for excellent chemical splash protection
- ▶ A combination of protection and reliable, consistent grip is needed
- ▶ Protection is crucial while performing delicate tasks

Everyday protection from hazards

Nitrile gloves provide the best chemical splash resistance in a disposable glove, as well as excellent barrier protection against biohazards, water miscible substances, weak acids, and alkalis (pH 4–10), aliphatic solvents, and oil and grease.

Outstanding chemical breakthrough times

- ▶ Acrylamide (40%) > 480 mins
- ▶ Ethidium Bromide (5%) > 480 mins
- ▶ Gluteraldehyde (50%) > 480 mins



For everyday, reliable protection

The durable but soft material offers excellent comfort while performing delicate tasks, without compromising splash protection.

StarGuard® Protect		
Description	Pack Size	Cat. No.
StarGuard® Protect, Nitrile Gloves, XS	10 × 100	SG-P-XS
StarGuard® Protect, Nitrile Gloves, S	10 × 100	SG-P-S
StarGuard® Protect, Nitrile Gloves, M	10 × 100	SG-P-M
StarGuard® Protect, Nitrile Gloves, L	10 × 100	SG-P-L
StarGuard® Protect, Nitrile Gloves, XL	10 × 100	SG-P-XL

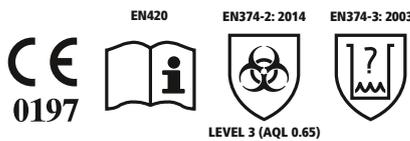


Longer!
250 mm long to provide splash protection for your hand and wrist



Strength and durability
hand protection you can rely on everyday

StarGuard® PROTECT+



Extended cuff for optimal protection

A strong yet comfortable glove with extended cuffs that provides the ultimate protection against day-to-day laboratory hazards.

- ▶ Extended cuff for increased protection over the wrist
- ▶ Combines strength and durability for everyday protection
- ▶ Excellent chemical splash protection
- ▶ Provides both protection and consistent grip



PPE Cat. III Complex Design. AQL 0.65
Violet-Blue Nitrile Glove. Textured Fingers
Length: 295 mm. 50 Gloves per Box

Recommended for use when:

- ▶ Contact with hazardous chemicals is a daily task
- ▶ Cover and increased protection for the wrist and forearm is needed
- ▶ Day-to-day hazards require a strong combination of durability and safety
- ▶ High protection and consistent grip is required

Optimal protection from hazards

Nitrile gloves provide the best chemical splash resistance in a disposable glove, as well as excellent barrier protection against biohazards, water miscible substances, weak acids, and alkalis (pH 4–10), aliphatic solvents, and oil and grease.

Outstanding chemical breakthrough times

- ▶ Acrylamide (40%) > 480 mins
- ▶ Ethidium Bromide (5%) > 480 mins
- ▶ Gluteraldehyde (50%) > 480 mins



Excellent chemical splash protection

StarGuard® PROTECT+ has been tested against an array of chemicals and complies to both EN374-3 and EN16523-1.

StarGuard® Protect+		
Description	Pack Size	Cat. No.
StarGuard® Protect+, Nitrile Gloves, S	10 x 50	SG-X-S
StarGuard® Protect+, Nitrile Gloves, M	10 x 50	SG-X-M
StarGuard® Protect+, Nitrile Gloves, L	10 x 50	SG-X-L
StarGuard® Protect+, Nitrile Gloves, XL	10 x 50	SG-X-XL

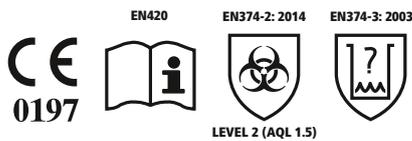


Extended cuff
 295 mm long to provide protection over the cuffs of your lab coat



Optimal protection
 Thicker glove with extended cuffs for optimal chemical splash protection

StarGuard® TOUCH



Recommended for use when:

- ▶ Durable comfort is required for lasting wear
- ▶ Working with blood-borne pathogens
- ▶ Secure and consistent grip is necessary for handling small instruments
- ▶ Tactile sensitivity is a must for working with a range of different instruments

Latex gloves provide the best elasticity in a disposable glove, as well as excellent barrier protection against blood-borne pathogens and other biohazards, water miscible substances, weak acids, and alkalis (pH 4–10).

Secure grip and tactile sensitivity

StarGuard® TOUCH is a comfortable, fully-textured latex glove that provides a secure, consistent grip and excellent tactile sensitivity.

- ▶ Excellent grip in both wet and dry conditions
- ▶ Great elasticity for comfort during long periods of wear
- ▶ Ideal for work that requires great dexterity



**PPE Cat. III Complex Design. AQL 1.5
Natural Latex Glove. Fully Textured
Length: 245 mm. 100 Gloves per Box***



Secure, latex grip

Latex gloves are ideal for work with small instruments. StarGuard® TOUCH are fully textured for a secure, consistent grip with the tactile sensitivity of latex.

StarGuard® Touch		
Description	Pack Size	Cat. No.
StarGuard® Touch, Latex Gloves, XS	10 × 100	SG-T-XS
StarGuard® Touch, Latex Gloves, S	10 × 100	SG-T-S
StarGuard® Touch, Latex Gloves, M	10 × 100	SG-T-M
StarGuard® Touch, Latex Gloves, L	10 × 100	SG-T-L
StarGuard® Touch, Latex Gloves, XL	10 × 90	SG-T-XL

*90 gloves per box XL.



Fully textured
for a secure grip

StarGuard® Glove Specifications

	StarGuard® COMFORT	StarGuard® PROTECT	StarGuard® PROTECT+	StarGuard® SENSITIVE	StarGuard® TOUCH
Gloves per Case	10 x 250 (XL 230)	10 x 100	10 x 50	10 x 200	10 x 100 (XL 90)
Glove Type	Nitrile	Nitrile	Nitrile	Nitrile	Latex
Type	Powder-Free, Ambidextrous, Single Use, Non-Sterile				
Colour	Light-Blue	Violet-Blue	Violet-Blue	Blue	Natural
Cuff	Beaded	Beaded	Extended, Beaded	Beaded	Beaded
Texture	Fingers	Fingers	Fingers	Fingers	Fully
Weight (g)	3.5	5.2	11	4.2	6
Length (mm)	245	250	295	240	245
Cuff Thickness (mm)	0.06	0.09	0.12	0.06	0.10
Palm Thickness (mm)	0.07	0.11	0.15	0.07	0.13
Finger Thickness (mm)	0.11	0.18	0.25	0.10	0.16
Minimum Elongation before Aging (%)	500	500	500	500	650
Elongation after Aging (%)	400	400	500	400	600
Tensile Strength before Aging (MPa)	33	30	30	29	22
Tensile Strength after Aging (MPa)	31	29	27	14	20
Force at Break before Aging (N)	7	10	12	7	9
Force at Break after Aging (N)	7	11	14	7	6
Shelf Life (years)	3	3	5	3	4
AQL	0.65	0.65	0.65	1.5	1.5
PPE 89/686/EEC	Personal Protective Equipment (PPE) Category III				
MDD 93/42/EEC	Medical Device Class I				
EN420	In compliance, Sizing for special purpose		In compliance	In compliance, Sizing for special purpose	
EN374-2	Level 3	Level 3	Level 3	Level 2	Level 2
EN374-3 / EN16523-1	In compliance, splash protection				
EN455	In compliance with Parts 1,2,3				
ISO 11193-1	In compliance				
ISO 21171	In compliance				
ASTM F1671	In compliance				
ASTM D6124	In compliance				



STARGUARDselect

How to find the right protection for each application

If you are concerned which gloves are the right ones to use for your laboratory work, then we can help.

STARGUARDselect can help you make the right decision quickly.

STARGUARDselect will provide you with your personal protection solution in just a few clicks. Just use the QR code below or go to www.starlabgroup.com/starguardselect

How it works:

1. Go to the website and press the START button.
2. A second page will open with a list of chemicals which were tested against our StarGuard® gloves. Select the chemicals which pose the most hazard to you and click on Next.
3. A list of the optimal gloves for the chemicals selected will be shown. You can also request your StarGuard® sample.



Microflex® Nitrile Gloves

All PPE Category III

Material characteristics

- ▶ Synthetic rubber
- ▶ Good splash protection
- ▶ Good barrier protection against biohazards
- ▶ Good for water miscible substances, weak acids and alkalis (pH 4–10)
- ▶ Good for aliphatic solvents, oils and grease
- ▶ Poor for direct contact with ketones
- ▶ 100% latex free – suitable for latex allergy sufferers

SUPRENO® Nitrile Gloves		
Description	Pack Size	Cat. No.
SUPRENO®, Nitrile Gloves, XS	10 x 100	SU-INT-XS
SUPRENO®, Nitrile Gloves, S	10 x 100	SU-INT-S
SUPRENO®, Nitrile Gloves, M	10 x 100	SU-INT-M
SUPRENO®, Nitrile Gloves, L	10 x 100	SU-INT-L
SUPRENO®, Nitrile Gloves, XL	10 x 100	SU-INT-XL

SUPRENO® plus Nitrile Gloves		
Description	Pack Size	Cat. No.
SUPRENO® plus, Nitrile Gloves, S	10 x 50	SP-INT-S
SUPRENO® plus, Nitrile Gloves, M	10 x 50	SP-INT-M
SUPRENO® plus, Nitrile Gloves, L	10 x 50	SP-INT-L
SUPRENO® plus, Nitrile Gloves, XL	10 x 50	SP-INT-XL

XCEED®		
Description	Pack Size	Cat. No.
XCEED® Nitrile Gloves, XS	10 x 250	XC-INT-XS
XCEED® Nitrile Gloves, S	10 x 250	XC-INT-S
XCEED® Nitrile Gloves, M	10 x 250	XC-INT-M
XCEED® Nitrile Gloves, L	10 x 250	XC-INT-L
XCEED® Nitrile Gloves, XL	10 x 230	XC-INT-XL

Glove	Interior	Exterior	Colour	Length	AQL*	Pack Size
SUPRENO®	Powder-free	Textured Fingers	Blue	245 mm	0.65	10 x 100
SUPRENO® PLUS	Powder-free	Textured Fingers	Blue	295 mm	0.65	10 x 50
XCEED®	Powder-free	Textured Fingers	Blue	240 mm	0.65	10 x 250 ¹

*AQL: Acceptable Quality Level, see page 161 for more information. ¹XL = 10 x 230.

Nitrile strength & comfort with added security!

Blue, powder-free nitrile gloves



Extended nitrile strength & extra security!

Blue, powder-free nitrile gloves, extended cuff



A glove to exceed all expectations!

Blue, powder-free nitrile gloves



Glove Box Dispenser

Free up your valuable bench space by mounting the glove dispenser to the wall. The epoxy-coated steel wire rack holds three boxes of gloves and is suitable for use with most brands and sizes of box. Supplied with fixings for wall mounting.

Wire Glove Dispenser		
Description	Pack Size	Cat. No.
Wire Glove Dispenser	1	E3099-3100



Alphabetical Index

A

AirClean® PCR Cabinets	155-156
Alphabetical Index.....	170
Aluminium Freezer Racking.....	134
Anything else you need to know.....	6
Aspirator	114, 140-142

B

Benchtop Coolers.....	131
Block Dry Baths.....	151-152
BMP™ 21-LAB Label Printer.....	98
Boxes and Racks	120-130

C

Calibration Pipettes	62-63
Cardboard Storage Boxes.....	122
Centrifuge Tubes 15 ml & 50 ml.....	77
Centrifuge	
Mini	5, 153
Plate	154
Centrifuge Tubes.....	77
Centrifuge Tube Storage.....	124
Cell Culture Consumables	103-116
Chiller Racks	130
Coolers.....	131
Cryogenic Storage Boxes.....	122-123
Cryogenic Vials	76
Culture Tubes.....	77
CytoOne®	
Bottle Top Filtration Units	110-111, 113-114
Centrifuge Tube Filtration System.....	112-113
Cell Scrapers	116
Dishes.....	105
Flasks with Two-Position Plug Seal Caps.....	108
Flasks with Vented Filter Caps	109
Multiwell Plates	106-107

D

Deepwell Plates PlateOne®	91
Dispenser Tips.....	32
Disposable Gloves.....	159-169
Dry Bath Incubator.....	151-152

E

ErgoOne® E Electronic Pipettes.....	52-53
ErgoOne® FAST Pipette Controller.....	54-55
ErgoOne® Multi-Channel Pipettes	51
ErgoOne® Pipettes: Overview	48-49
ErgoOne® Pipette Stands.....	56
ErgoOne® Single-Channel Pipettes.....	50

F

Filter Tips (Specialty Tips).....	27-29, 31
Filter Tips, TipOne®.....	18, 22-23, 25
Freezer Racking.....	132-134

G

Gel-Xtraction Tool.....	30
Gel-Loading Tips.....	31
Gloves	
Guidelines and standards.....	161
StarGuard® Comfort	162
StarGuard® SENSITIVE	163
StarGuard® Protect	164
StarGuard® Protect+.....	165
StarGuard® TOUCH	166
StarGuard® Glove Specifications.....	167
STARGUARDselect.....	168
Your Personal Protection	160
Glove Box Dispenser	169
Glove Microflex.....	169
Supreno	169
Supreno Plus	169
XCEED.....	169

H

Heat Sealing Films	93
High Impact Screw Cap Microtubes.....	75

I

ID Tape	99-100
Instruments.....	137-156
Ice Bath / Floating Rack	130
Index by Catalogue Number.....	171-173
Individually Wrapped tips.....	27
Investing in the Future.....	3

L

Label Cartridges for BMP™21 Printer Series	99
Label Cartridges for LabPal™ & LabXpert™.....	100
Labelling.....	96-97, 99-100
Laboratory ID Tape	97
Laboratory Labels	96
Large Volume tips	28-29

M

Magnetic Stirrer	150
Magnetic Stirrer with Heating.....	150
Microcentrifuge	153-154
Mini Fuge Plus.....	5, 153
Plate Centrifuge	154
Microplates PlateOne®.....	92
Microcentrifuge Tubes.....	68-72
Microcentrifuge Tube Accessories	73
Microflex® Nitrile Gloves.....	169
Microplate Mixer	143
Microtubes in Rack	78
Minicentrifuge	5, 153
Mini Dry Bath.....	151
Mixer HC	138-139
Multi-Tube Racks	126-128

N

Non-Skirted PCR Plates	84-85
Notes.....	174-176

O

Orbital Shaker.....	148
Order form pipette-service.....	64

P

Parafilm® Sealing Film	94
PCR Plate—Cycler Compatibility.....	88-89
PCR Plate-Sealing Overview.....	90, 93
PCR Strips.....	80-83
PCR Tubes	79
Pipette Tips	
Extended Length	27
Gel-Loading	31
Large Volume	28-29
TipOne®	10-25
Wide Orifice	30
Pipettes	
Calibration	63
Electronic	52-53
Manual	48-51
Multi-Channel	51, 53
Repeat Dispenser.....	58
Serological	57
Service.....	61-64
Single-Channel.....	50, 53
Stands.....	56
Pipette Controllers.....	54-55
Plate Centrifuge.....	154
PlateOne® Deepwell Plates	91
PlateOne® Microplates	92
Polystyrene Pipettes.....	57
Preparation Tubes.....	73
Polypropylene Storage Boxes.....	120-121, 125
PCR Sample Racks	128-129

R

Racks and Storage Boxes.....	119-134
Reagent Reservoirs.....	94-95
RepeatOne® Dispenser	58
Robotic Reservoirs.....	44
Robotic Tips	
for Beckman Coulter®	37-39
for Packard®	40
for Perkin Elmer®	41
for Qiagen®	40-42
for Tecan®	42
Tip—Robot Compatibility	43
Rocking Shaker & 3D Rocking Shaker	149
Rotator Mixer RM-Multi 1	144
Rotor Gene® Style	
Discs.....	4, 83
PCR Strips.....	83
RPT Tips, TipOne®	24-25

S

Screw Cap Microtubes.....	74-75
Sealing Accessories.....	93
Sealing Films & Foils.....	93
Self-Adhesive	
Lab Labels	96-97, 99-100
Plate Seals.....	93
Serological Pipettes	97
Semi-Skirted PCR Plates.....	86
Service levels.....	63
Shaker.....	148-149
Single & Dual Block Dry Bath	152
Skirted PCR Plates	87
Smart Instruments.....	137-156
Stainless Steel	
Freezer Racking.....	132-134
StarChill.....	4, 130
StarGuard®.....	160-167
StarPet Filler (Manual).....	55
StarRacks	125-126, 128
StarSeals	93
StarStore Storage Boxes	120-121, 123
StarTags.....	96
Stirrers, Magnetic.....	150
StarGuard® Gloves.....	160-167
STARGUARDselect.....	168
STARLAB Quality & Service	2
Storage Boxes & Racks	125
Syringe Filters	5, 115

T

The STARLAB Concept.....	62
Thermoblock (Mixer HC).....	139
TipOne®	
20 years – The Original.....	10-11
The Trusted Tip.....	12-13
A system with a system	14
System Components Overview.....	15
The Perfect Rack	16
The Clever Refill	17
The Unique Filter Tip Refill	18
The Compact Stack Rack	19
The Self-Standing Bag	19
TipOne® Pipette Tips	20-25
TipOne® Recycling	26
TipOne® Repeat Dispenser Tips.....	32
Tips for Beckman Coulter®	37-39
Tips for Packard®	40
Tips for Perkin Elmer®.....	41
Tips for Qiagen®	40-42
Tips for Tecan®.....	42
Tip—Robot Compatibility	43
Tubes	
Centrifuge	77
Cryogenic Storage.....	76
Culture.....	77
Labels	96
Microcentrifuge	68-72
Microtubes in Racks.....	78
PCR	79
Preparation	73
Screw Cap Microtubes.....	74-75
Storage Boxes & Racks	120-134
Tube Roller	147
Transport Cases & Coolers	131
TwisStar Rack.....	127

V

Vortex.....	145
Vortex IR	146

W

Wide Orifice Tips.....	30
------------------------	----

Index by Catalogue Number

▶ A

A1402-3700.....	81
A1402-3700-C.....	81
A1402-3800.....	81
A9023-1616.....	122
A9023-2525.....	122
A9023-3100.....	122
A9023-4949.....	122
A9023-8181.....	122
A9025-1616.....	122
A9025-2525.....	122
A9025-3100.....	122
A9025-4949.....	122
A9025-8181.....	122
A9027-1616.....	122
A9027-2525.....	122
A9027-3100.....	122
A9027-4949.....	122
A9027-8181.....	122

▶ B

B1402-5500.....	79
B1402-9200... 85, 88, 89	
B1402-9300... 86, 88, 89	
B1408-3300.....	79
B1494-1005..... 85, 86	
B1494-1024.....	91
B1494-1124.....	91
B1494-1224..... 91, 92	
B2323-3840..... 88, 89	

▶ C

CC6000-1116.....	113
CC6000-1122.....	113
CC6032-1402.....	113
CC6032-1411.....	113
CC6032-7233.....	111
CC6032-8233.....	111
CC6032-9233.....	111
CC6062-1233.....	111
CC6062-2233.....	111
CC6062-3233.....	111
CC7600-0220.....	116
CC7600-0250.....	116
CC7600-0320.....	116
CC7672-3340.....	105
CC7672-3359.....	105
CC7672-3394.....	105
CC7672-3614.....	105
CC7672-4175.....	108
CC7672-4225.....	108
CC7672-4325.....	108
CC7672-4415.....	108
CC7672-7506.....	107
CC7672-7512.....	107
CC7672-7524.....	107
CC7672-7548.....	107
CC7672-7596.....	107
CC7682-3340.....	105
CC7682-3359.....	105
CC7682-3394.....	105
CC7682-3614.....	105
CC7682-4175.....	108
CC7682-4225.....	108
CC7682-4325.....	108
CC7682-4415.....	108
CC7682-4815.....	109
CC7682-4822.....	109
CC7682-4825.....	109
CC7682-4875.....	109
CC7682-7506.....	107
CC7682-7512.....	107
CC7682-7524.....	107
CC7682-7548.....	107
CC7682-7596.....	107

▶ E

E1009-7000.....	28
E1009-7001.....	28
E1011-0921.....	27
E1011-1002.....	27
E1011-1008.....	27
E1011-1430.....	27

E1011-8000.....	30
E1011-8400.....	30
E1011-8410.....	30
E1011-9000.....	30
E1021-0618.....	31
E1022-0008.....	31
E1042-2350.....	87
E1042-2500... 87, 88, 89	
E1042-3000... 87, 88, 89	
E1042-3840... 87, 88, 89	
E1042-3849.....	87
E1042-9909... 87, 88, 89	
E1075-3700.....	37
E1075-3710.....	37
E1076-0400.....	38
E1076-0410.....	38
E1076-0418.....	38
E1076-0700.....	39
E1076-0800.....	39
E1076-2400.....	38
E1076-2410.....	38
E1076-2418.....	38
E1076-4400.....	38
E1076-4410.....	38
E1076-4418.....	38
E1076-4700.....	39
E1076-4800.....	39
E1078-2400.....	41
E1078-5400.....	41
E1172-1418.....	41
E1173-2418.....	41
E1306-1010.....	94
E1306-1090.....	94
E1306-1122.....	94
E1306-2590.....	94
E1346-1010.....	94
E1346-2510.....	94
E1403-0000..... 84 - 87	
E1403-0100... 84, 88, 89	
E1403-0200... 84, 88, 89	
E1403-0208.....	84
E1403-0209.....	84
E1403-1200... 84, 88, 89	
E1403-1200-C.....	84
E1403-1209.....	84
E1403-2200... 85, 89, 88	
E1403-3200... 85, 88, 89	
E1403-4200... 85, 88, 89	
E1403-5200... 87, 88, 89	
E1403-5200-BC.....	87
E1403-5208.....	87
E1403-5209.....	87
E1403-6200.....	86
E1403-6200... 88, 89	
E1403-6209.....	86
E1403-7700.....	86
E1403-7700... 88, 89	
E1403-7709.....	86
E1403-8200.....	86
E1403-8200... 88, 89	
E1403-8209.....	86
E1405-0301.....	75
E1405-0302.....	75
E1405-0304.....	75
E1405-0306.....	75
E1405-0600.....	69
E1405-0610.....	69
E1405-2120.....	74
E1405-2127.....	74
E1405-2130.....	74
E1405-2140.....	74
E1405-2141.....	75
E1405-2142.....	75
E1405-2143.....	75
E1405-2600.....	70
E1405-5100.....	69
E1405-9000.....	73
E1415-0200.....	77
E1415-0301.....	75
E1415-0302.....	75
E1415-0304.....	75
E1415-0306.....	75
E1415-0311.....	75

E1415-0312.....	75
E1415-0314.....	75
E1415-0316.....	75
E1415-0800.....	77
E1415-1500.....	69
E1415-1510.....	69
E1415-2210.....	74
E1415-2220.....	74
E1415-2227.....	74
E1415-2230.....	74
E1415-2231.....	75
E1415-2232.....	75
E1415-2233.....	75
E1415-2237.....	74
E1415-2240.....	74
E1415-2241.....	75
E1415-2242.....	75
E1415-2243.....	75
E1415-2600.....	70
E1415-2850.....	71
E1420-0301.....	75
E1420-0302.....	75
E1420-0304.....	75
E1420-0306.....	75
E1420-0311.....	75
E1420-0312.....	75
E1420-0314.....	75
E1420-0316.....	75
E1420-2000.....	69
E1420-2010.....	69
E1420-2320.....	74
E1420-2330.....	74
E1420-2331.....	75
E1420-2332.....	75
E1420-2333.....	75
E1420-2337.....	74
E1420-2340.....	74
E1420-2341.....	75
E1420-2342.....	75
E1420-2343.....	75
E1420-2347.....	74
E1420-2641.....	75
E1420-2850.....	71
E1420-5100.....	69
E1420-5108.....	69
E1420-0200.....	77
E1450-0500.....	77
E1450-0800.....	77
E1450-1000.....	73
E1450-1100.....	73
E1450-1101.....	73
E1450-1102.....	73
E1450-1104.....	73
E1450-1106.....	73
E1450-1108.....	73
E1480-0100.....	74
E1480-0101.....	74
E1480-0102.....	74
E1480-0103.....	74
E1480-0104.....	74
E1480-0105.....	74
E1480-0106.....	74
E1480-0107.....	74
E1480-0108.....	74
E1480-0109.....	74
E1480-0199.....	74
E1480-0200.....	74
E1480-0201.....	74
E1480-0202.....	74
E1480-0203.....	74
E1480-0204.....	74
E1480-0205.....	74
E1480-0206.....	74
E1480-0207.....	74
E1480-0208.....	74
E1480-0209.....	74
E1480-0299.....	74
E1480-0300.....	74
E1480-0301.....	74
E1480-0302.....	74
E1480-0303.....	74
E1480-0304.....	74
E1480-0305.....	74

E1480-0306.....	74
E1480-0309.....	74
E1480-0399.....	74
E1494-6001.....	76
E1494-6002.....	76
E1494-6003.....	76
E1494-6004.....	76
E1494-6005.....	76
E1494-6006.....	76
E1494-6007.....	76
E1494-6009.....	76
E1494-6099.....	76
E1702-8400.....	78
E1702-8410.....	78
E1720-8000.....	78
E1703-9410.....	78
E1710-0000.....	78
E1720-8000.....	78
E1730-9000.....	78
E1750-0400.....	78
E1750-0410.....	78
E1760-8400.....	78
E1760-8410.....	78
E1770-9400.....	78
E1770-9410.....	78
E2005-5000.....	76
E2100-5000.....	125
E2100-5002.....	125
E2100-5004.....	125
E2100-5006.....	125
E2100-5008.....	125
E2300-5005.....	120
E2301-5309.....	123
E2305-6009.....	121
E2310-0505.....	95
E2310-0510.....	95
E2310-1000.....	95
E2310-1010.....	95
E2310-1025.....	95
E2310-1100.....	95
E2313-1009.....	128
E2340-3099.....	126
E2340-4000.....	126
E2340-4041.....	126
E2340-4042.....	126
E2340-4043.....	126
E2340-4044.....	126
E2340-4046.....	126
E2344-1099.....	127
E2344-2099.....	129
E2345-1000.....	127
E2345-1041.....	127
E2345-1042.....	127
E2345-1043.....	127
E2345-1044.....	127
E2345-1046.....	127
E2345-1099.....	127
E2346-1000.....	127
E2346-1041.....	127
E2346-1042.....	127
E2346-1043.....	127
E2346-1044.....	127
E2346-1046.....	127
E2346-1099.....	127
E2347-1001.....	127
E2347-1002.....	127
E2347-1003.....	127
E2347-1004.....	127
E2347-1005.....	127
E2347-1099.....	127
E2349-5009.....	120
E2350-0200.....	77
E2350-0500.....	77
E2350-0800.....	77
E2350-4001.....	76
E2350-4004.....	76
E2350-4005.....	76
E2350-5009.....	121
E2364-1010.....	126
E2364-1011.....	126
E2364-1012.....	126
E2364-1013.....	126

E2364-1014.....	126
E2364-1015.....	126
E2364-1016.....	126
E2364-1041.....	126
E2364-1042.....	126
E2364-1043.....	126
E2364-1044.....	126
E2364-1046.....	126
E2364-6048.....	126
E2364-6099.....	126
E2380-5000.....	125
E2380-5001.....	125
E2380-5002.....	125
E2380-5003.....	125
E2380-5004.....	125
E2380-5005.....	125
E2380-5006.....	125
E2380-5007.....	125
E2380-5008.....	125
E2380-5041.....	125
E2380-5042.....	125
E2380-5043.....	125
E2380-5044.....	125
E2380-5046.....	125
E2380-5048.....	125
E2380-6000.....	128
E2380-6001.....	128
E2380-6002.....	128
E2380-6003.....	128
E2380-6004.....	128
E2380-6006.....	128
E2381-5001.....	123
E2381-5002.....	123
E2381-5003.....	123
E2381-5004.....	123
E2381-5006.....	123
E2381-5099.....	123
E2382-5001.....	123
E2382-5002.....	123
E2382-5003.....	123
E2382-5004.....	123
E2382-5006.....	123
E2382-5099.....	123
E2382-6001.....	123
E2382-6002.....	123
E2382-6003.....	123
E2382-6004.....	123
E2382-6006.....	123
E2382-6099.....	123
E2383-5001.....	123
E2383-5002.....	123
E2383-5003.....	123
E2383-5004.....	123
E2383-5006.....	123
E2383-5099.....	123
E2390-5000.....	125
E2396-0010.....	126
E2396-0011.....	126
E2396-0012.....	126
E2396-0013.....	126
E2396-0014.....	126
E2396-0015.....	126
E2396-0016.....	126
E2396-0018.....	126
E2396-0041.....	126
E2396-0042.....	126
E2396-0043.....	126
E2396-0044.....	126
E2396-0046.....	126
E2396-1651.....	129
E2396-1652.....	129
E2396-1653.....	129
E2396-1654.....	129
E2396-1656.....	129
E2396-2004.....	130

E2396-2006.....	130
E2396-3008.....	130
E2396-5240.....	128
E2396-5634.....	130
E2396-5636.....	130
E2396-5654.....	130
E2396-5656.....	130
E2396-9649.....	129
E2396-9659.....	129
E2396-9669.....	129
E2396-9691.....	129
E2396-9692.....	129
E2396-9693.....	129
E2396-9694.....	129
E2396-9696.....	129
E2396-9701.....	128
E2396-9702.....	128
E2396-9703.....	128
E2396-9705.....	128
E2396-9706.....	128
E2396-9711.....	124
E2396-9712.....	124
E2396-9713.....	124
E2396-9715.....	1

Index by Catalogue Number

E9025-1650.....	124	G9008-0020.....	53	I1402-1200-C.....	80	I1420-2706.....	71	I2662-1157.....	134	N2400-9009.....	142
E9025-2515.....	124	G9008-0100.....	53	I1402-1208.....	80	I1420-2707.....	71	I2928-7355.....	93	N2400-9010.....	142
E9025-3615.....	124	G9008-0300.....	53	I1402-2700.....	81	I1420-2799.....	71	I3080-1038.....	94	N2400-9011.....	142
E9026-0000.....	97	G9012-0010.....	53	I1402-2800.....	81	I1485-0810.....	77	I3080-1075.....	94	N2400-9012.....	142
E9026-2005.....	97	G9012-0020.....	53	I1402-2900.....	81	I1485-2810.....	77	I3080-5075.....	94	N2400-9013.....	142
E9055-1270.....	97	G9012-0100.....	53	I1402-2908.....	81	I1494-1400.....	78	I6308-1515.....	131	N2400-9014.....	142
E9055-1271.....	97	G9012-0300.....	53	I1402-3500.....	80	I1494-1410.....	78	I6342-4270.....	131	N2400-9015.....	142
E9055-1272.....	97	G9999-1000.....	53	I1402-3500-C.....	80	I2310-5800.....	121	I6348-1515.....	131	N2520-3200.....	156
E9055-1273.....	97	G9999-1001.....	53, 56	I1402-3508.....	80	I2310-5841.....	121	I9023-1615.....	122	N2520-4800.....	156
E9055-1274.....	97	G9999-1002.....	53, 56	I1402-3509.....	80	I2310-5842.....	121	I9023-1650.....	122	N2530-1500.....	156
E9055-1275.....	97	G9999-1003.....	53, 56	I1402-3600.....	80	I2310-5843.....	121			N2530-8200.....	156
E9055-1276.....	97	G9999-1004.....	53, 56	I1402-3609.....	80	I2310-5844.....	121	▶ N		N2530-8300.....	156
E9055-1278.....	97	G9999-1005.....	53	I1402-3700.....	82	I2310-5846.....	121	N0072-4619.....	100	N2540-8400.....	156
E9055-1279.....	97	G9999-1006.....	53	I1402-3708.....	82	I2310-5848.....	121	N0074-4619.....	100	N2540-8500.....	156
E9055-1910.....	97	G9999-1007.....	53	I1402-3800.....	82	I2312-2720.....	131	N0081-4889.....	100	N2631-0008.....	154
E9055-1911.....	97	G9999-1008.....	53	I1402-4300.....	79	I2312-2721.....	131	N0082-4993.....	100	N2631-0017.....	153
E9055-1912.....	97			I1402-4308.....	79	I2324-5000.....	130	N0082-4996.....	100	N2631-0018.....	154
E9055-1913.....	97			I1402-4700.....	80	I2344-1000.....	127	N0082-4999.....	100	N3000-0000.....	98
E9055-1914.....	97	▶ I		I1402-5700.....	80	I2344-1040.....	127	N0086-4619.....	100	N3000-0002.....	98
E9055-1915.....	97	I1009-5000.....	28	I1402-6700.....	80	I2349-1025.....	120	N0097-4889.....	100	N3942-7000.....	156
E9055-1916.....	97	I1010-3600.....	31	I1402-8100.....	79	I2350-1025.....	121	N0108-4619.....	100	N3942-7500.....	156
E9055-1918.....	97	I1010-3610.....	31	I1402-8108.....	79	I2350-5800.....	121	N0117-4999.....	100	N3952-7018.....	156
E9055-1919.....	97	I1010-3800.....	31	I1402-8200.....	79	I2350-5841.....	121	N0118-4999.....	100	N3952-7518.....	156
E9055-2500.....	97	I1011-0016.....	27	I1402-8200... 86, 88, 89		I2350-5842.....	121	N0119-4619.....	100	N3795-4391.....	99, 100
E9055-2501.....	97	I1011-0020.....	27	I1402-9700-C.....	86	I2350-5843.....	121	N2000-0100.....	30	N3795-4392.....	99, 100
E9055-2502.....	97	I1011-0070.....	27	I1402-9709.....	86	I2350-5844.....	121	N2400-0001.....	146	N3795-4393.....	99, 100
E9055-2503.....	97	I1011-0830.....	27	I1402-9800... 86, 88, 89		I2350-5846.....	121	N2400-1001.....	146	N3795-4394.....	99, 100
E9055-2504.....	97	I1011-0920.....	27	I1402-9800-BC.....	86	I2350-5848.....	121	N2400-1002.....	146	N3795-4396.....	99, 100
E9055-2505.....	97	I1011-2011.....	27	I1402-9809.....	86	I2381-2305.....	122	N2400-1003.....	146	N3795-4399.....	99, 100
E9055-2506.....	97	I1011-2600.....	31	I1402-9909.....	88	I2381-5040.....	120	N2400-1004.....	146	N3795-4619.....	99, 100
E9055-2508.....	97	I1011-3010.....	27	I1402-9909..... 86, 89		I2381-5041.....	120	N2400-1005.....	146	N3795-4889.....	99, 100
E9055-2509.....	97	I1011-4600.....	31	I1404-1000.....	72	I2381-5042.....	120	N2400-1006.....	146	N3795-4999.....	99, 100
E9127-1270.....	97	I1011-5830.....	27	I1405-0510.....	72	I2381-5043.....	120	N2400-1008.....	146	N3795-7425.....	99, 100
E9127-1271.....	97	I1011-8000.....	30	I1405-1500.....	70	I2381-5044.....	120	N2400-2010.....	150	N5127-4619.....	99, 100
E9127-1272.....	97	I1012-2600.....	31	I1405-1501.....	70	I2381-5046.....	120	N2400-3010.....	150	N5127-4889.....	99, 100
E9127-1273.....	97	I1012-3600.....	31	I1405-1502.....	70	I2381-5048.....	120	N2400-3011.....	150	N5127-4999.....	99, 100
E9127-1274.....	97	I1012-4600.....	31	I1405-1503.....	70	I2381-5049.....	120	N2400-4001.....	152	N5127-7425.....	99, 100
E9127-1275.....	97	I1022-0000.....	31	I1405-1504.....	70	I2396-5048.....	126	N2400-4002.....	152	N7519-4619.....	99, 100
E9127-1276.....	97	I1022-0600.....	31	I1405-1505.....	70	I2396-5099.....	126	N2400-4020.....	151	N7519-4889.....	99, 100
E9127-1278.....	97	I1022-0610.....	31	I1405-1506.....	70	I2510-5005.....	122	N2400-4021.....	151	N7519-4999.....	99
E9127-1279.....	97	I1022-0810.....	31	I1405-1507.....	70	I2602-1000.....	132	N2400-4022.....	151	N7519-7425.....	99, 100
E9127-1910.....	97	I1022-2600.....	31	I1405-1508.....	70	I2602-1100.....	132	N2400-4023.....	151		
E9127-1911.....	97	I1022-4600.....	31	I1405-4390.....	73	I2602-1200.....	132	N2400-4024.....	151	▶ P	
E9127-1912.....	97	I1026-7810.....	27	I1405-8100.....	79	I2602-3300.....	132	N2400-4025.....	151	P7166-6002.....	55
E9127-1913.....	97	I1050-0000.....	29	I1405-8108.....	79	I2602-3400.....	132	N2400-4026.....	151	P7166-6103.....	55
E9127-1914.....	97	I1050-0700.....	29	I1405-8200.....	79	I2602-3500.....	132	N2400-4100.....	152	P7166-6109.....	55
E9127-1915.....	97	I1050-0710.....	29	I1409-2700.....	81	I2602-4300.....	132	N2400-4101.....	152	P7166-6306.....	55, 56
E9127-1916.....	97	I1050-0718.....	29	I1409-3700.....	82	I2602-4400.....	132	N2400-4102.....	152	P7166-6402.....	55
E9127-1918.....	97	I1050-0728.....	29	I1409-3800.....	82	I2602-4500.....	132	N2400-4103.....	152	P7166-6501.....	55
E9127-1919.....	97	I1052-0000.....	29	I1409-4700.....	80	I2602-6000.....	132	N2400-4104.....	152	P7166-6605.....	55
E9127-2500.....	97	I1052-0001.....	29	I1409-5700.....	80	I2602-7000.....	132	N2400-4105.....	152	P7166-6701.....	55
E9127-2501.....	97	I1052-0010.....	29	I1412-7400.....	78	I2602-8000.....	132	N2400-4106.....	152	P7166-6800.....	55
E9127-2502.....	97	I1053-0000.....	28	I1412-7410.....	78	I2602-9000.....	132	N2400-4107.....	152	P7166-6904.....	55
E9127-2503.....	97	I1053-0700.....	28	I1414-5500.....	72	I2603-0110.....	134	N2400-4108.....	152		
E9127-2504.....	97	I1053-0710.....	28	I1415-1000.....	71	I2603-0112.....	134	N2400-5000.....	144	▶ R	
E9127-2505.....	97	I1053-0718.....	28	I1415-1001.....	71	I2603-0114.....	134	N2400-5103.....	144	R1028-0810.....	40, 42
E9127-2506.....	97	I1053-0728.....	28	I1415-1002.....	71	I2603-0116.....	134	N2400-5104.....	144	R1028-0819.....	40, 42
E9127-2508.....	97	I1054-0000.....	29	I1415-1003.....	71	I2603-0118.....	134	N2400-6010.....	145	R1028-2810.....	40, 42
E9127-2509.....	97	I1054-0001.....	29	I1415-1004.....	71	I2603-0120.....	134	N2400-6011.....	145	R1028-2819.....	40, 42
E9127-2940.....	93	I1054-0011.....	29	I1415-1005.....	71	I2603-0122.....	134	N2400-6012.....	143, 145	R1028-3810.....	40, 42
E9185-0001.....	96	I1054-0028.....	29	I1415-1006.....	71	I2603-0124.....	134	N2400-6013.....	143, 145	R1028-3819.....	40, 42
E9185-0002.....	96	I1060-2400.....	37	I1415-1007.....	71	I2603-0130.....	134	N2400-6014.....	145	R1028-5810.....	40, 42
E9185-0003.....	96	I1060-2410.....	37	I1415-1008.....	71	I2610-0800.....	133	N2400-6015.....	145	R1028-5819.....	40, 42
E9185-0004.....	96	I1060-5410.....	37	I1415-1508.....	73	I2610-1200.....	133	N2400-7010.....	147	R1028-0700.....	40, 42
E9185-0006.....	96	I1062-0400.....	37	I1415-2500.....	71	I2610-1500.....	133	N2400-8010.....	149	R1081-0709.....	40, 42
E9185-0009.....	96	I1062-0410.....	37	I1415-2501.....	71	I 2610-1800.....	133	N2400-8011.....	148, 149	R1081-2700.....	40, 42
E9185-2240.....	96	I1400-0800.....	80	I1415-2502.....	71	I2610-1900.....	133	N2400-8020.....	149	R1081-2709.....	40, 42
E9186-9987.....	96	I1400-0800-C.....	80	I1415-2503.....	71	I2610-2000.....	133	N2400-8021.....	148, 149	R1081-3700.....	40, 42
E9187-1009.....	96	I1400-0808.....	80	I1415-2504.....	71	I2610-2100.....	133	N2400-8030.....	148	R1081-3709.....	40, 42
E9187-2016.....	96	I1400-0810.....	80	I1415-2505.....	71	I2610-2200.....	133	N2400-8040.....	143	R1081-5700.....	40, 42
E9188-1009.....	96	I1400-0818.....	80	I1415-2506.....	71	I2610-2300.....	133	N2400-8041.....	143	R1081-5709.....	40, 42
E9188-8699.....	96	I1400-0900.....	80	I1415-2508.....	71	I2615-1000.....	133	N2400-8042.....	143	R1128-0810.....	40, 42
E9189-3009.....	76, 96	I1400-1008.....	73	I1415-5100.....	69	I2615-2600.....	133	N2400-8043.....	143	R1128-0819.....	40, 42
E9199-0000.....	96	I1400-1200.....	80	I1415-5390.....	73	I2615-3600.....	133	N2400-9000... 114, 142		R1128-2810.....	40, 42
		I1400-1200-C.....	80	I1415-5510.....	72	I2632-3300.....	132	N2400-9001.....	142	R1128-2819.....	40, 42
▶ G		I1400-1208.....	80	I1420-2600.....	70	I2632-3400.....	132	N2400-9002.....	142	R1128-3810.....	40, 42
G9001-0010.....	53	I1400-1290.....	80	I1420-2700.....	71	I2632-4400.....	132	N2400-9003.....	142	R1128-3819.....	40, 42
G9001-0020.....	53	I1400-1300.....	80	I1420-2701.....	71	I2650-2600.....	133	N2400-9004.....	142	R1128-5810.....	40, 42
G9001-0200.....	53	I1402-0400.....	83	I1420-2702.....	71	I2650-3600.....	133	N2400-9005.....	142	R1128-5819.....	40, 42
G9001-1000.....	53	I1402-0500.....	83	I1420-2703.....	71	I2652-0957.....	134	N2400-9006.....	142	R1181-0700.....	40, 42
G9001-5000.....	53	I1402-0600.....	83	I1420-2704.....	71	I2652-1157.....	134	N2400-9007.....	142	R1181-0709.....	40, 42
G9008-0010.....	53	I1402-1200.....	80	I1420-2705.....	71	I2662-0957.....	134	N2400-9008.....	142	R1181-2700.....	40, 42

R1181-2709..... 40, 42
 R1181-3700..... 40, 42
 R1181-3709..... 40, 42
 R1181-5700..... 40, 42
 R1181-5709..... 40, 42

► S

S1110-3000.....21
 S1110-3000-C.....21
 S1110-3700..... 20
 S1110-3700-C..... 20
 S1110-3800..... 20
 S1110-3800-C..... 20
 S1110-3810..... 20
 S1110-3810-C..... 20
 S1110-9000..... 21
 S1110-9000-C..... 21
 S1110-9700..... 20
 S1110-9700-C..... 20
 S1110-9800..... 20
 S1110-9800-C..... 20
 S1110-9810..... 20
 S1110-9810-C..... 20
 S1111-0000..... 21
 S1111-0000-C..... 21
 S1111-0006..... 21
 S1111-0006-C..... 21
 S1111-0200..... 21
 S1111-0200-C..... 21
 S1111-0206..... 21
 S1111-0206-C..... 21
 S1111-0210..... 21
 S1111-0210-C..... 21
 S1111-0700..... 20
 S1111-0700-C..... 20
 S1111-0706..... 20
 S1111-0706-C..... 20
 S1111-0800..... 20
 S1111-0800-C..... 20
 S1111-0806..... 20
 S1111-0806-C..... 20
 S1111-0810..... 20
 S1111-0810-C..... 20
 S1111-0816..... 20
 S1111-0816-C..... 20
 S1111-1000..... 21
 S1111-1000-C..... 21
 S1111-1006..... 21
 S1111-1006-C..... 21
 S1111-1200..... 21
 S1111-1200-C..... 21
 S1111-1206..... 21
 S1111-1206-C..... 21
 S1111-1210..... 21
 S1111-1210-C..... 21
 S1111-1700..... 20
 S1111-1700-C..... 20
 S1111-1706..... 20
 S1111-1706-C..... 20
 S1111-1800..... 20
 S1111-1800-C..... 20
 S1111-1806..... 20
 S1111-1806-C..... 20
 S1111-1810..... 20
 S1111-1810-C..... 20
 S1111-1816..... 20
 S1111-1816-C..... 20
 S1111-3000..... 21
 S1111-3000-C..... 21
 S1111-3200..... 21
 S1111-3200-C..... 21
 S1111-3210..... 21
 S1111-3210-C..... 21
 S1111-3700..... 20
 S1111-3700-C..... 20
 S1111-3800..... 20
 S1111-3800-C..... 20
 S1111-3810..... 20
 S1111-3810-C..... 20
 S1111-6000..... 21
 S1111-6000-C..... 21
 S1111-6001..... 21

S1111-6001-C..... 21
 S1111-6700..... 20
 S1111-6700-C..... 20
 S1111-6701..... 20
 S1111-6701-C..... 20
 S1111-6800..... 20
 S1111-6800-C..... 20
 S1111-6801..... 20
 S1111-6801-C..... 20
 S1111-6810..... 20
 S1111-6810-C..... 20
 S1111-6811..... 20
 S1111-6811-C..... 20
 S1112-1020..... 21
 S1112-1020-C..... 21
 S1112-1720..... 20
 S1112-1720-C..... 20
 S1112-1820..... 20
 S1112-1820-C..... 20
 S1112-1830..... 20
 S1112-1830-C..... 20
 S1113-1000..... 21
 S1113-1000-C..... 21
 S1113-1006..... 21
 S1113-1006-C..... 21
 S1113-1200..... 21
 S1113-1200-C..... 21
 S1113-1206..... 21
 S1113-1206-C..... 21
 S1113-1216..... 21
 S1113-1216-C..... 21
 S1113-1700..... 20
 S1113-1700-C..... 20
 S1113-1706..... 20
 S1113-1706-C..... 20
 S1113-1800..... 20
 S1113-1800-C..... 20
 S1113-1806..... 20
 S1113-1806-C..... 20
 S1113-1810..... 20
 S1113-1810-C..... 20
 S1113-1816..... 20
 S1113-1816-C..... 20
 S1120-1710..... 23
 S1120-1710-C..... 23
 S1120-1740..... 23
 S1120-1740-C..... 23
 S1120-1810..... 23
 S1120-1810-C..... 23
 S1120-1840..... 23
 S1120-1840-C..... 23
 S1120-2710..... 23
 S1120-2710-C..... 23
 S1120-2810..... 23
 S1120-2810-C..... 23
 S1120-3710..... 23
 S1120-3710-C..... 23
 S1120-3810..... 23
 S1120-3810-C..... 23
 S1120-8710..... 23
 S1120-8710-C..... 23
 S1120-8810..... 23
 S1120-8810-C..... 23
 S1120-9710..... 23
 S1120-9710-C..... 23
 S1120-9810..... 23
 S1120-9810-C..... 23
 S1121-2710..... 23
 S1121-2710-C..... 23
 S1121-3810..... 23
 S1121-3810-C..... 23
 S1122-1730..... 23
 S1122-1730-C..... 23
 S1122-1830..... 23
 S1122-1830-C..... 23
 S1123-1710..... 23
 S1123-1710-C..... 23
 S1123-1740..... 23
 S1123-1740-C..... 23
 S1123-1810..... 23
 S1123-1810-C..... 23
 S1123-1840..... 23

S1123-1840-C..... 23
 S1126-7710..... 23
 S1126-7710-C..... 23
 S1126-7810..... 23
 S1126-7810-C..... 23
 S1160-3700..... 25
 S1160-3700-C..... 25
 S1160-3800..... 25
 S1160-3800-C..... 25
 S1160-9700..... 25
 S1160-9700-C..... 25
 S1160-9800..... 25
 S1160-9800-C..... 25
 S1161-1700..... 25
 S1161-1700-C..... 25
 S1161-1720..... 25
 S1161-1720-C..... 25
 S1161-1800..... 25
 S1161-1800-C..... 25
 S1161-1820..... 25
 S1161-1820-C..... 25
 S1161-3700..... 25
 S1161-3700-C..... 25
 S1163-1700..... 25
 S1163-1700-C..... 25
 S1163-1800..... 25
 S1163-1800-C..... 25
 S1180-1710..... 25
 S1180-1710-C..... 25
 S1180-1740..... 25
 S1180-1740-C..... 25
 S1180-1810..... 25
 S1180-1810-C..... 25
 S1180-1840..... 25
 S1180-1840-C..... 25
 S1180-3710..... 25
 S1180-3710-C..... 25
 S1180-3810..... 25
 S1180-3810-C..... 25
 S1180-8710..... 25
 S1180-8710-C..... 25
 S1180-8810..... 25
 S1180-8810-C..... 25
 S1180-9710..... 25
 S1180-9710-C..... 25
 S1180-9810..... 25
 S1180-9810-C..... 25
 S1181-3710..... 25
 S1181-3710-C..... 25
 S1181-3810..... 25
 S1181-3810-C..... 25
 S1182-1730..... 25
 S1182-1730-C..... 25
 S1182-1830..... 25
 S1182-1830-C..... 25
 S1183-1710..... 25
 S1183-1710-C..... 25
 S1183-1740..... 25
 S1183-1740-C..... 25
 S1183-1810..... 25
 S1183-1810-C..... 25
 S1183-1840..... 25
 S1183-1840-C..... 25
 S1602-2900..... 81
 S1602-4300..... 79
 S1605-0000..... 68
 S1605-0099..... 68
 S1615-5500..... 68
 S1615-5510..... 68
 S1615-5550..... 68
 S1615-5599..... 68
 S1620-2700..... 68
 S1620-2799..... 68
 S1830-9600..... 92
 S1830-9610..... 92
 S1833-9600..... 92
 S1833-9610..... 92
 S1837-9600..... 92
 S1837-9610..... 92
 S1884-2000..... 91
 S1884-2400..... 91
 S1884-2410..... 91

S1896-1000..... 91
 S1896-1110..... 91
 S1896-1800..... 91
 S1896-2000..... 91
 S1896-2110..... 91
 S1896-2800..... 91
 S1896-5000..... 91
 S1896-5110..... 91
 S1896-5800..... 91
 S4026-5806..... 95
 S4026-1500..... 58
 S4751-0010..... 32
 S4751-0050..... 32
 S4751-0100..... 32
 S4751-0250..... 32
 S4751-0500..... 32
 S4751-1000..... 32
 S4751-2500..... 32
 S4751-5000..... 32
 S4756-2500..... 32, 58
 S4756-5000..... 32, 58
 S4761-0010..... 32
 S4761-0050..... 32
 S4761-0100..... 32
 S4761-0250..... 32
 S4761-0500..... 32
 S4761-1000..... 32
 S4761-2500..... 32
 S4761-5000..... 32
 S4765-2500..... 32, 58
 S4765-5000..... 32, 58
 S7100-0125..... 50
 S7100-0220..... 50
 S7100-0221..... 50
 S7100-0510..... 50
 S7100-1100..... 50
 S7100-2200..... 50
 S7108-0510..... 51
 S7108-1100..... 51
 S7108-3300..... 51
 S7110-1000..... 50
 S7112-0510..... 51
 S7112-1100..... 51
 S7112-3300..... 51
 S7150-5000..... 50
 S7166-0010..... 55
 S7200-0000..... 56
 S7200-0001..... 56
 S8012-0000..... 139
 S8012-0010..... 139
 S8012-0011..... 139
 S8012-0012..... 139
 S8012-0013..... 139
 S8012-0014..... 139
 S8012-0015..... 139
 S8012-0016..... 139
 S8012-0017..... 139
 S8012-0018..... 139
 S8012-0019..... 139
 S8012-0020..... 139
 S8012-0021..... 139
 SG-C-L..... 162
 SG-C-M..... 162
 SG-C-S..... 162
 SG-C-XL..... 162
 SG-C-XS..... 162
 SG-N-L..... 163
 SG-N-M..... 163
 SG-N-S..... 163
 SG-N-XL..... 163
 SG-N-XS..... 163
 SG-P-L..... 164
 SG-P-M..... 164
 SG-P-S..... 164
 SG-P-XL..... 164
 SG-P-XS..... 164
 SG-T-L..... 166
 SG-T-M..... 166
 SG-T-S..... 166
 SG-T-XL..... 166
 SG-T-XS..... 166
 SG-X-L..... 165

SG-X-M..... 165
 SG-X-S..... 165
 SG-X-XL..... 165
 SP-INT-L..... 169
 SP-INT-M..... 169
 SP-INT-S..... 169
 SP-INT-XL..... 169
 SU-INT-L..... 169
 SU-INT-M..... 169
 SU-INT-S..... 169
 SU-INT-XL..... 169
 SU-INT-XS..... 169

► X

XC-INT-L..... 169
 XC-INT-M..... 169
 XC-INT-S..... 169
 XC-INT-XL..... 169
 XC-INT-XS..... 169

Notes

A series of horizontal dotted lines for writing notes.

Notes

A series of horizontal dotted lines for writing notes.

Notes

A series of horizontal dotted lines for writing notes.

Notes

A series of horizontal dotted lines for writing notes.

Notes

A series of horizontal dotted lines for writing notes.



www.starlabgroup.com

STARLAB International GmbH

Neuer Höltigbaum 38
22143 Hamburg
Germany

T: +49 (0)40 675 99 39 0
F: +49 (0)40 675 99 39 20
info@starlab.de
www.starlabgroup.com

STARLAB GmbH

Neuer Höltigbaum 38
22143 Hamburg
Germany

T: +49 (0)40 675 99 39 0
F: +49 (0)40 675 99 39 20
info@starlab.de
www.starlab.de

STARLAB (UK), Ltd

5 Tanners Drive
Milton Keynes MK14 5BU
United Kingdom

T: +44 (0)1908 283800
F: +44 (0)1908 283802
info@starlab.co.uk
www.starlab.co.uk

STARLAB FRANCE SARL

30 Rue Jean Rostand
91400 Orsay
France

T: +33 (0)1 60 13 71 70
F: +33 (0)1 69 41 48 65
info@starlab-france.com
www.starlab-france.com

STARLAB S.r.l.

Via Pinturicchio 1
20133 Milano
Italy

T: +39 02 7020 1040
F: +39 02 7020 1033
info@starlabitalia.it
www.starlabitalia.it