



LIQUID HANDLING TECHNOLOGY

# *Get **GREEN** with STARLAB*

PRODUCTS FOR THE LABORATORY 2019/2020

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



# Anything else you need to know...



## New products

We work very closely with our customer network to continuously improve the products we offer, and to seek out new opportunities both from a product and support perspective. In this catalogue you will find several new products - look out for the New! symbol.



## TipFinder – find the right tip for your pipette

Did you know STARLAB tips fit most pipettes on the market? To help you find the perfect match for your pipette, we created the STARLAB TipFinder.

STARLAB TipOne® pipette tips offer a wide range of choice with standard TipOne® pipette tips, TipOne® Filter Tips or TipOne® RPT. To find the right tip for your pipette, visit [www.starlab.click/tipfinder](http://www.starlab.click/tipfinder)



## Try before you buy

We are confident that our consumables will meet your research needs, but also understand you may wish to test a product before using it long-term for your valuable research. That's why we offer our customers the opportunity to Try Before You Buy!

[www.starlab.click/samplerrequest](http://www.starlab.click/samplerrequest)



## 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](http://www.starlab.click/starguardselect)

# STARLAB ordering service

Customer Account No:

**STARLAB International GmbH**

**T: +49 (0)40 6759 939-0**

**F: +49 (0)40 6759 939-20**

**info@starlab.de**

**www.starlabgroup.com**

Your STARLAB Account Manager:

# Contents

► <b>ABOUT STARLAB</b> .....	<b>02 – 04</b>
• Get Green with STARLAB • Total Liquid Handling	
► <b>PIPETTE TIPS</b> .....	<b>05 – 24</b>
• TipOne® Pipette Tips • Speciality Tips • Dispenser Tips	
► <b>ROBOTIC TIPS</b> .....	<b>25 – 32</b>
• Overview • Tip-Robot Compatibility • Beckman Coulter® • Packard® • Tecan® • Perkin Elmer® • Qiagen® • Robotic Reservoirs	
► <b>PIPETTES</b> .....	<b>33 – 44</b>
• Manual Pipettes • Electronic Pipettes • Pipette Controllers • Pipette Stands • Polystyrene Pipettes • Repeat Dispenser	
► <b>PIPETTE SERVICING</b> .....	<b>45 – 48</b>
• STARLAB Pipette Servicing • Service Levels • Order Form	
► <b>CONSUMABLES</b> .....	<b>49 – 82</b>
• Tubes • PCR Consumables • Plates • Plate Sealing • Parafilm® • Filtration Funnels • Reagent Reservoirs • Labelling	
► <b>CELL CULTURE</b> .....	<b>83 – 98</b>
• CytoOne® Overview • Cell Culture Dishes • Cell Culture Plates • Cell Culture Flasks • Cell Scrapers • Centrifuge Tubes • Cell Strainers • Syringe Filters • Cell Culture Filtration	
► <b>SAMPLE STORAGE</b> .....	<b>99 – 114</b>
• Storage Boxes & Racks • Benchtop Coolers • Stainless Steel Storage • Freezer Racking Systems	
► <b>SMART INSTRUMENTS</b> .....	<b>115 – 134</b>
• Aspirator • Mixers • Vortexers • Shakers • Stirrers • Dry Bath Incubators • Centrifuges • PCR Cabinets	
► <b>PROTECTION</b> .....	<b>135 – 147</b>
• Disposable Gloves	
► <b>INDEX</b> .....	<b>148 – 154</b>
• Alphabetical Index • Index by Catalogue Number • Note	

# Get **Green** with STARLAB!

STARLAB prides itself on being a green company. We work on long-term strategies to reduce the company's impact on the environment for both the products we produce and the day-to-day running of the business. All aspects of the business which have an environmental impact are continually monitored with the view to reducing that impact by 5% each year. STARLAB was one of the first UK companies within its sector to obtain ISO 14001 certification for Environmental Management.

STARLAB is committed to promoting sustainability in science. Our green ideas start with our **"reduce, reuse, refill, recycle"** philosophy for the Research and Development of greener products.

Our market-leading TipOne® pipette tip system is at the forefront of our green initiatives and is designed to reduce plastic waste; the tip rack is reusable with plastic-saving refills and all components of the system are recyclable.

STARLAB continually reviews all our processes to ensure we maintain and implement good, sustainable business practices. Our aim is that our commitment to reducing our impact on the environment will help our customers achieve their own sustainable purchasing objectives.

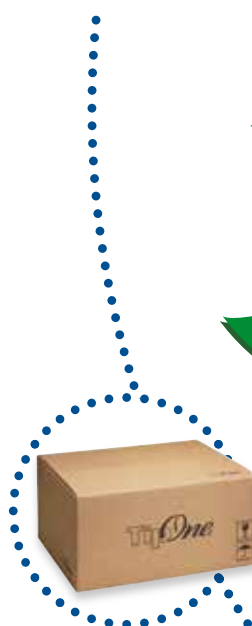
Visit our website to learn more about STARLAB's green initiatives:  
[www.starlab.click/green](http://www.starlab.click/green)



**GREEN ENERGY**  
Sourced from wind power for TipOne® manufacturing



**SMART PACKAGING**  
Packaging of StarGuard®  
COMFORT: 250 gloves in same size box as 100 gloves in conventional packaging



**BULK BUY**  
Save on packing resources and transport emissions by buying the case



**RECYCLE**  
Your used STARLAB products.





#### **REDUCE**

Up to 40 % plastic material saved for our new generation TipOne® tips



#### **REUSE**

TipOne® racks withstand repeated autoclave cycles while retaining stability, strength and shape.



#### **REFILL**

Save plastic waste and money by using our TipOne® REFILL



#### **DUAL USE**

Upcycle TipOne® racks into any creative idea you can think of

- **STARLAB locations:**  
France, Italy, United Kingdom and Germany.

# Total Liquid Handling

STARLAB are liquid handling experts. We have many years' experience in automated injection moulding processes for the manufacture and sale of high quality laboratory consumables for research and development.

With TipOne® we have developed one of the world's leading pipette tip system. STARLAB manufactured products are in daily use in laboratories throughout the world and have a proven track record of performance and reliability.

We have earned an excellent reputation within the research community as a consultative company who takes a structured approach to Liquid Handling products and support.

We work very closely with our customer network to continuously improve the products we offer, and to seek out new opportunities both from a product and support perspective.





**Reuse, Refill, Recycle!**  
Pipette tips don't have to cost the earth

## TipOne® PIPETTE TIPS

TipOne® The Trusted Tip .....	06–07
A System with a System! .....	08
System Components Overview .....	08
The Perfect Rack .....	09
The Clever Refill .....	10
The Unique Filter Tip Refill .....	10
The Compact Stack Rack .....	11
The Self-Standing Bag .....	11
TipOne® Standard Tips .....	12–13
TipOne® Filter Tips .....	14–15
TipOne® RPT .....	16–17
TipOne® Recycling .....	18

## SPECIALITY TIPS

Extended Length Tips .....	19
384-Format Tips .....	19
Individually Wrapped Tips .....	19
Large Volume Tips .....	20–21
Wide Orifice Tips .....	22
Gel Extraction Tool .....	22
Gel-Loading Tips .....	23

## DISPENSER TIPS

TipOne® Repeat .....	24
----------------------	----

# 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 14–15.

\* 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.

2

### 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!*

#### One tip fits all

The tip collar is engineered to fit all popular pipettes without any loss of accuracy or precision.

### 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.

4

4

5

5

6

6

### *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 16–17.

### UltraPoint orifice

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



# 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 CO<sub>2</sub> 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®

## System Components Overview



# 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



1. Lid opens at an optimised angle for unrestricted access
2. Wafer locks securely into the rack for stability during pipetting
3. Stackable
4. Reusable, autoclavable and recyclable

## Remarkable durability



### 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.



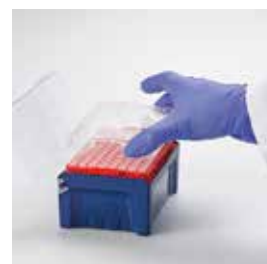
### Stackable

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.



### Reusable

Reuse the racks over and over with the easy to use refill system. This will reduce the amount of new plastic coming into your laboratory and minimise the plastic for recycling.

# The **Clever** Refill

## The clever Refill

A quick and easy way to obtain economical racked tips.

- ▶ 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



1. Space saving
2. Autoclavable, once racked
3. Eco Friendly
4. Tip info printed on every wafer
5. Recyclable

# 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



1. Economical
2. Tip info printed on wafer is visible before and after being unwrapped
3. Top and bottom shells protect integrity of sterile product
4. Space Saving and Eco Friendly
5. Recyclable

# 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



1. Compact
2. Autoclavable
3. Recyclable
4. Stable design
5. Reusable

# The **Self-Standing** Bag

## The self-standing Bag













Economical – ideal for teaching labs or non-critical work

- ▶ 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
- ▶ Recyclable







1. Resealable
2. Self-standing for easy access
3. Recyclable



PIPETTE TIPS	RACKED	RACKED	REFILL
All Tips shown actual size. n/a = not available.	96-Tip Racks	96-Tip Sterile Racks	96-Tip Refills
 <b>10 µl</b> Graduated Tip (Graduations: 2,5 µl, 10 µl)	<b>S1111-3800</b> (960 Tips)	<b>S1111-3810</b> (960 Tips)	<b>S1111-3700</b> (960 Tips)
	<b>S1111-3800-C</b> (7680 Tips)	<b>S1111-3810-C</b> (7680 Tips)	<b>S1111-3700-C</b> (9600 Tips)
 <b>10/20 µl</b> XL Graduated Tip (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	<b>S1110-3800</b> (960 Tips)	<b>S1110-3810</b> (960 Tips)	<b>S1110-3700</b> (960 Tips)
	<b>S1110-3800-C</b> (7680 Tips)	<b>S1110-3810-C</b> (7680 Tips)	<b>S1110-3700-C</b> (9600 Tips)
 <b>200 µl</b> Tip	<b>S1111-0800</b> (960 Tips)	<b>S1111-0810</b> (960 Tips)	<b>S1111-0700</b> (960 Tips)
	<b>S1111-0800-C</b> (7680 Tips)	<b>S1111-0810-C</b> (7680 Tips)	<b>S1111-0700-C</b> (9600 Tips)
 <b>200 µl</b> Yellow Tip	<b>S1111-0806</b> (960 Tips)	<b>S1111-0816</b> (960 Tips)	<b>S1111-0706</b> (960 Tips)
	<b>S1111-0806-C</b> (7680 Tips)	<b>S1111-0816-C</b> (7680 Tips)	<b>S1111-0706-C</b> (9600 Tips)
 <b>200 µl</b> Bevelled Tip	<b>S1111-1800</b> (960 Tips)	<b>S1111-1810</b> (960 Tips)	<b>S1111-1700</b> (960 Tips)
	<b>S1111-1800-C</b> (7680 Tips)	<b>S1111-1810-C</b> (7680 Tips)	<b>S1111-1700-C</b> (9600 Tips)
 <b>200 µl</b> Yellow, Bevelled Tip	<b>S1111-1806</b> (960 Tips)	<b>S1111-1816</b> (960 Tips)	<b>S1111-1706</b> (960 Tips)
	<b>S1111-1806-C</b> (7680 Tips)	<b>S1111-1816-C</b> (7680 Tips)	<b>S1111-1706-C</b> (9600 Tips)
 <b>200 µl</b> UltraPoint Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	<b>S1113-1800</b> (960 Tips)	<b>S1113-1810</b> (960 Tips)	<b>S1113-1700</b> (960 Tips)
	<b>S1113-1800-C</b> (7680 Tips)	<b>S1113-1810-C</b> (7680 Tips)	<b>S1113-1700-C</b> (9600 Tips)
 <b>200 µl</b> UltraPoint Yellow Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	<b>S1113-1806</b> (960 Tips)	<b>S1113-1816</b> (960 Tips)	<b>S1113-1706</b> (960 Tips)
	<b>S1113-1806-C</b> (7680 Tips)	<b>S1113-1816-C</b> (7680 Tips)	<b>S1113-1706-C</b> (9600 Tips)
 <b>300 µl</b> Graduated Tip (Graduations: 100 µl, 200 µl, 300 µl)	<b>S1110-9800</b> (960 Tips)	<b>S1110-9810</b> (960 Tips)	<b>S1110-9700</b> (960 Tips)
	<b>S1110-9800-C</b> (7680 Tips)	<b>S1110-9810-C</b> (7680 Tips)	<b>S1110-9700-C</b> (9600 Tips)
 <b>1000 µl</b> Graduated Tip (Graduations: 250 µl, 500 µl, 1000 µl)	<b>S1111-6800</b> (960 Tips)	<b>S1111-6810</b> (960 Tips)	<b>S1111-6700</b> (960 Tips)
	<b>S1111-6800-C</b> (3840 Tips)	<b>S1111-6810-C</b> (3840 Tips)	<b>S1111-6700-C</b> (9600 Tips)
 <b>1000 µl</b> Blue Graduated Tip (Graduations: 250 µl, 500 µl, 1000 µl)	<b>S1111-6801</b> (960 Tips)	<b>S1111-6811</b> (960 Tips)	<b>S1111-6701</b> (960 Tips)
	<b>S1111-6801-C</b> (3840 Tips)	<b>S1111-6811-C</b> (3840 Tips)	<b>S1111-6701-C</b> (9600 Tips)
 <b>1250 µl</b> XL Graduated Tip (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	<b>S1112-1820</b> (960 Tips)	<b>S1112-1830</b> (960 Tips)	<b>S1112-1720</b> (960 Tips)
	<b>S1112-1820-C</b> (3840 Tips)	<b>S1112-1830-C</b> (3840 Tips)	<b>S1112-1720-C</b> (9600 Tips)





			
<b>STACK RACK</b>	<b>STACK RACK</b>	<b>LOOSE</b>	<b>COLOUR CODING</b>
<b>960-Tip Stack</b>	<b>960-Tip Sterile Stack</b>	<b>1000 / Bag</b>	
<b>S1111-3200</b> (960 Tips)	<b>S1111-3210</b> (960 Tips)	<b>S1111-3000</b> (1000 Tips)	●
<b>S1111-3200-C</b> (9600 Tips)	<b>S1111-3210-C</b> (9600 Tips)	<b>S1111-3000-C</b> (50,000 Tips)	
<b>n/a</b>	<b>n/a</b>	<b>S1110-3000</b> (1000 Tips)	●
<b>n/a</b>	<b>n/a</b>	<b>S1110-3000-C</b> (50,000 Tips)	
<b>S1111-0200</b> (960 Tips)	<b>S1111-0210</b> (960 Tips)	<b>S1111-0000</b> (1000 Tips)	●
<b>S1111-0200-C</b> (9600 Tips)	<b>S1111-0210-C</b> (9600 Tips)	<b>S1111-0000-C</b> (25,000 Tips)	
<b>S1111-0206</b> (960 Tips)	<b>n/a</b>	<b>S1111-0006</b> (1000 Tips)	●
<b>S1111-0206-C</b> (9600 Tips)	<b>n/a</b>	<b>S1111-0006-C</b> (25,000 Tips)	
<b>S1111-1200</b> (960 Tips)	<b>S1111-1210</b> (960 Tips)	<b>S1111-1000</b> (1000 Tips)	●
<b>S1111-1200-C</b> (9600 Tips)	<b>S1111-1210-C</b> (9600 Tips)	<b>S1111-1000-C</b> (25,000 Tips)	
<b>S1111-1206</b> (960 Tips)	<b>n/a</b>	<b>S1111-1006</b> (1000 Tips)	●
<b>S1111-1206-C</b> (9600 Tips)	<b>n/a</b>	<b>S1111-1006-C</b> (25,000 Tips)	
<b>S1113-1200</b> (960 Tips)	<b>n/a</b>	<b>S1113-1000</b> (1000 Tips)	●
<b>S1113-1200-C</b> (9600 Tips)	<b>n/a</b>	<b>S1113-1000-C</b> (25,000 Tips)	
<b>S1113-1206</b> (960 Tips)	<b>S1113-1216</b> (960 Tips)	<b>S1113-1006</b> (1000 Tips)	●
<b>S1113-1206-C</b> (9600 Tips)	<b>S1113-1216-C</b> (9600 Tips)	<b>S1113-1006-C</b> (25,000 Tips)	
<b>n/a</b>	<b>n/a</b>	<b>S1110-9000</b> (1000 Tips)	●
<b>n/a</b>	<b>n/a</b>	<b>S1110-9000-C</b> (25,000 Tips)	
<b>n/a</b>	<b>n/a</b>	<b>S1111-6000</b> (1000 Tips)	●
<b>n/a</b>	<b>n/a</b>	<b>S1111-6000-C</b> (20,000 Tips)	
<b>n/a</b>	<b>n/a</b>	<b>S1111-6001</b> (1000 Tips)	●
<b>n/a</b>	<b>n/a</b>	<b>S1111-6001-C</b> (20,000 Tips)	
<b>n/a</b>	<b>n/a</b>	<b>S1112-1020</b> (1000 Tips)	●
<b>n/a</b>	<b>n/a</b>	<b>S1112-1020-C</b> (16,000 Tips)	



Racked and Filter Refill TipOne® products are supplied in these easy to stack shelf boxes (960 Tips).



Be green and buy by the case (part numbers ending with -C). Ordering by the case saves on packing materials and reduces transport emissions.



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.

 [www.starlab.click/tipone](http://www.starlab.click/tipone)

# 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.

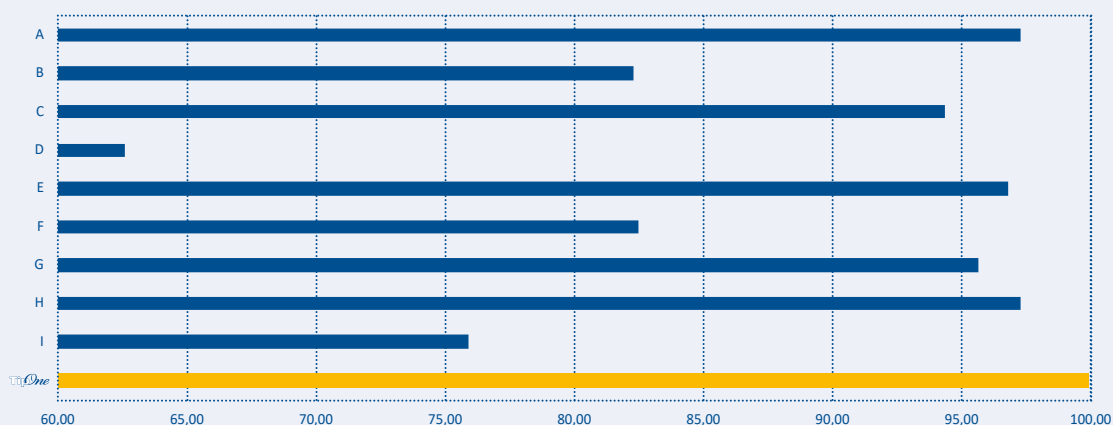
TipOne® filter tips contain no additives to interfere with your samples and are one of the best filters available on the market. They are proven\* to block >99 % of aerosols. The results, shown below, speak for themselves!

## 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














**Blocking of Particles (diam. approx. 100 nm) [%]**  
**TipOne® filter tips compared to other manufacturers' filter tips\***



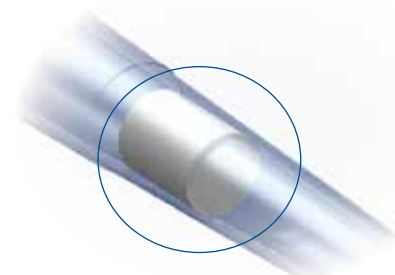
\*The comparative tests were conducted in 2018 in an independent test institute with filter tips from other leading manufacturers.



FILTER TIPS (STERILE)	RACKED	FILTER REFILL	COLOUR CODING
ALL TIPS SHOWN ACTUAL SIZE.	96-Tip Sterile Racks	96-Tip Sterile Refills	
 <b>10 µl</b> Graduated Filter Tip (Sterile) (Graduations: 2.5 µl, 10 µl)	<b>S1121-3810</b> (960 Tips) <b>S1121-3810-C</b> (7680 Tips)	<b>S1121-2710</b> (960 Tips) <b>S1121-2710-C</b> (7680 Tips)	●
 <b>10/20 µl</b> XL Graduated Filter Tip (Sterile) (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	<b>S1120-3810</b> (960 Tips) <b>S1120-3810-C</b> (7680 Tips)	<b>S1120-3710</b> (960 Tips) <b>S1120-3710-C</b> (7680 Tips)	●
 <b>20 µl</b> Bevelled Filter Tip (Sterile)	<b>S1120-1810</b> (960 Tips) <b>S1120-1810-C</b> (7680 Tips)	<b>S1120-1710</b> (960 Tips) <b>S1120-1710-C</b> (7680 Tips)	●
 <b>20 µl</b> UltraPoint Graduated Filter Tip (Sterile) (Graduation: 10 µl)	<b>S1123-1810</b> (960 Tips) <b>S1123-1810-C</b> (7680 Tips)	<b>S1123-1710</b> (960 Tips) <b>S1123-1710-C</b> (7680 Tips)	●
 <b>50 µl</b> Bevelled Filter Tip (Sterile)	<b>S1120-2810</b> (960 Tips) <b>S1120-2810-C</b> (7680 Tips)	<b>S1120-2710</b> (960 Tips) <b>S1120-2710-C</b> (7680 Tips)	●
 <b>100 µl</b> Bevelled Filter Tip (Sterile)	<b>S1120-1840</b> (960 Tips) <b>S1120-1840-C</b> (7680 Tips)	<b>S1120-1740</b> (960 Tips) <b>S1120-1740-C</b> (7680 Tips)	●
 <b>100 µl</b> UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl, 50 µl, 100 µl)	<b>S1123-1840</b> (960 Tips) <b>S1123-1840-C</b> (7680 Tips)	<b>S1123-1740</b> (960 Tips) <b>S1123-1740-C</b> (7680 Tips)	●
 <b>200 µl</b> Graduated Filter Tip (Sterile) (Graduations: 50 µl, 100 µl, 200 µl)	<b>S1120-8810</b> (960 Tips) <b>S1120-8810-C</b> (7680 Tips)	<b>S1120-8710</b> (960 Tips) <b>S1120-8710-C</b> (7680 Tips)	●
 <b>300 µl</b> Graduated Filter Tip (Sterile) (Graduations: 100 µl, 200 µl, 300 µl)	<b>S1120-9810</b> (960 Tips) <b>S1120-9810-C</b> (7680 Tips)	<b>S1120-9710</b> (960 Tips) <b>S1120-9710-C</b> (7680 Tips)	●
 <b>1000 µl</b> XL Filter Tip (Sterile)	<b>S1126-7810</b> (960 Tips) <b>S1126-7810-C</b> (3840 Tips)	<b>S1126-7710</b> (960 Tips) <b>S1126-7710-C</b> (3840 Tips)	●
 <b>1000 µl</b> XL Graduated Filter Tip (Sterile) (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	<b>S1122-1830</b> (960 Tips) <b>S1122-1830-C</b> (3840 Tips)	<b>S1122-1730</b> (960 Tips) <b>S1122-1730-C</b> (3840 Tips)	●

## TipOne® Filters

TipOne® filters are made from high density pure polyethylene. They contain no additives which can interfere with your sample. The filters are hydrophobic and will not absorb your samples the way sealing filters do, allowing recovery of your valuable samples if necessary.



# 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% pure polypropylene
- ▶ Improved sample recovery
- ▶ Reduced DNA binding
- ▶ Autoclavable
- ▶ Universal! Fits all popular pipettes
- ▶ Reusable, refillable and recyclable system



FREE SAMPLE  
TRY  
before you  
BUY  
available on request

RPT TIPS	RACKED	REFILL
All Tips shown actual size. n/a = not available	96-Tip Racks	96-Tip Refills
 <b>10 µl</b> RPT Graduated Tip (Graduations: 2.5 µl, 10 µl)	n/a	<b>S1161-3700</b> (960 Tips) <b>S1161-3700-C</b> (9600 Tips)
 <b>10/20 µl</b> RPT XL Graduated Tip (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	<b>S1160-3800</b> (960 Tips) <b>S1160-3800-C</b> (7680 Tips)	<b>S1160-3700</b> (960 Tips) <b>S1160-3700-C</b> (9600 Tips)
 <b>200 µl</b> RPT Bevelled Tip	<b>S1161-1800</b> (960 Tips) <b>S1161-1800-C</b> (7680 Tips)	<b>S1161-1700</b> (960 Tips) <b>S1161-1700-C</b> (9600 Tips)
 <b>200 µl</b> RPT UltraPoint Graduated Tip (Graduations: 10 µl, 50 µl, 100 µl)	<b>S1163-1800</b> (960 Tips) <b>S1163-1800-C</b> (7680 Tips)	<b>S1163-1700</b> (960 Tips) <b>S1163-1700-C</b> (9600 Tips)
 <b>300 µl</b> RPT Graduated Tip (Graduations: 100 µl, 200 µl, 300 µl)	<b>S1160-9800</b> (960 Tips) <b>S1160-9800-C</b> (7680 Tips)	<b>S1160-9700</b> (960 Tips) <b>S1160-9700-C</b> (9600 Tips)
 <b>1250 µl</b> RPT XL Graduated Tip (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	<b>S1161-1820</b> (960 Tips) <b>S1161-1820-C</b> (3840 Tips)	<b>S1161-1720</b> (960 Tips) <b>S1161-1720-C</b> (9600 Tips)

RPT FILTER TIPS (STERILE)	RACKED	FILTER REFILL
All Tips shown actual size.	96-Tip Sterile Racks	96-Tip Sterile Refills
 <b>10 µl</b> RPT Graduated Filter Tip (Sterile) (Graduations: 2.5 µl, 10 µl)	<b>S1181-3810</b> (960 Tips) <b>S1181-3810-C</b> (7680 Tips)	<b>S1181-3710</b> (960 Tips) <b>S1181-3710-C</b> (7680 Tips)
 <b>10/20 µl</b> RPT XL Graduated Filter Tip (Sterile) (Graduations: 1 µl, 5 µl, 10 µl, 20 µl)	<b>S1180-3810</b> (960 Tips) <b>S1180-3810-C</b> (7680 Tips)	<b>S1180-3710</b> (960 Tips) <b>S1180-3710-C</b> (7680 Tips)
 <b>20 µl</b> RPT Bevelled Filter Tip (Sterile)	<b>S1180-1810</b> (960 Tips) <b>S1180-1810-C</b> (7680 Tips)	<b>S1180-1710</b> (960 Tips) <b>S1180-1710-C</b> (7680 Tips)
 <b>20 µl</b> RPT UltraPoint Graduated Filter Tip (Sterile) (Graduation: 10 µl)	<b>S1183-1810</b> (960 Tips) <b>S1183-1810-C</b> (7680 Tips)	<b>S1183-1710</b> (960 Tips) <b>S1183-1710-C</b> (7680 Tips)
 <b>100 µl</b> RPT Bevelled Filter Tip (Sterile)	<b>S1180-1840</b> (960 Tips) <b>S1180-1840-C</b> (7680 Tips)	<b>S1180-1740</b> (960 Tips) <b>S1180-1740-C</b> (7680 Tips)
 <b>100 µl</b> RPT UltraPoint Graduated Filter Tip (Sterile) (Graduations: 10 µl, 50 µl, 100 µl)	<b>S1183-1840</b> (960 Tips) <b>S1183-1840-C</b> (7680 Tips)	<b>S1183-1740</b> (960 Tips) <b>S1183-1740-C</b> (7680 Tips)
 <b>200 µl</b> RPT Graduated Filter Tip (Sterile) (Graduations: 50 µl, 100 µl, 200 µl)	<b>S1180-8810</b> (960 Tips) <b>S1180-8810-C</b> (7680 Tips)	<b>S1180-8710</b> (960 Tips) <b>S1180-8710-C</b> (7680 Tips)
 <b>300 µl</b> RPT Graduated Filter Tip (Sterile) (Graduations: 100 µl, 200 µl, 300 µl)	<b>S1180-9810</b> (960 Tips) <b>S1180-9810-C</b> (7680 Tips)	<b>S1180-9710</b> (960 Tips) <b>S1180-9710-C</b> (7680 Tips)
 <b>1000 µl</b> RPT XL Graduated Filter Tip (Sterile) (Graduations: 100 µl, 250 µl, 500 µl, 1000 µl)	<b>S1182-1830</b> (960 Tips) <b>S1182-1830-C</b> (3840 Tips)	<b>S1182-1730</b> (960 Tips) <b>S1182-1730-C</b> (3840 Tips)



# 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**

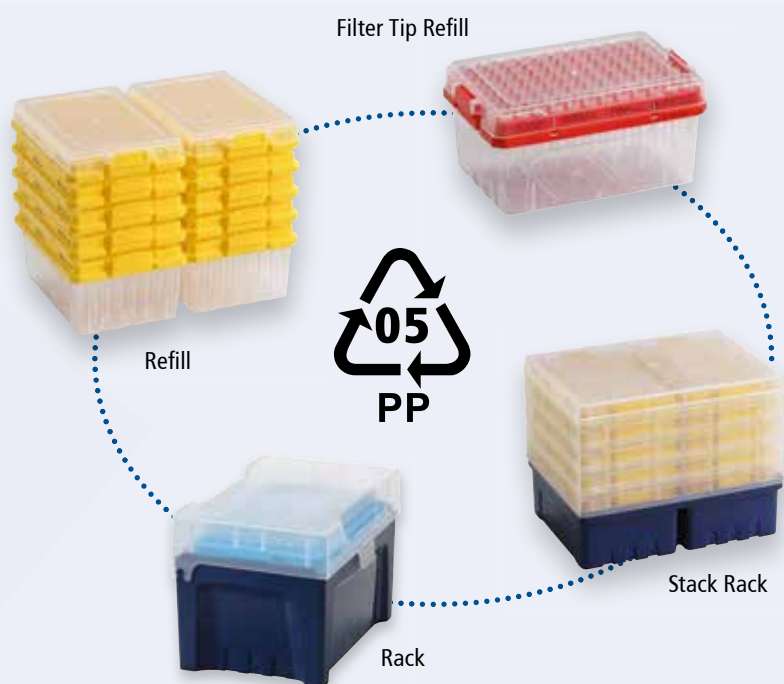
All components of the TipOne® system are made from polypropylene (PP), so the rack, the refill wafers, and the refill's spacers and top and bottom shells, can all go into the same recycling bag or bin at your site.







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

[www.starlab.click/recycling](http://www.starlab.click/recycling)




# Extended Length Tips


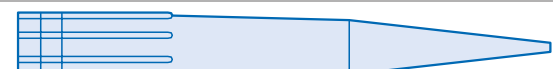
ORDER INFORMATION				
All tips are certified and natural in colour. Tips shown actual size.	Pack Type	Sterile	Pack Size	Cat. No.
 <b>200 µl XL Tip</b> For use with but not limited to: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, FinnpiPETTE®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet,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

 [www.starlab.click/specialitytips](http://www.starlab.click/specialitytips)





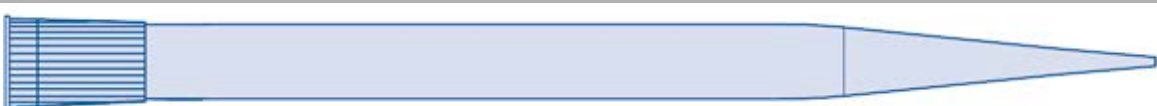

## 384-Format Tips

ORDER INFORMATION				
All tips are certified and natural in colour. Tips shown actual size.	Pack Type	Sterile	Pack Size	Cat. No.
 <b>30 µl CAPP-Style 384-Format Tip</b> For use with but not limited to: CAPP® 16-Channel	384-Tip Rack	No	10 x 384	E3840-3000

## Individually Wrapped Tips

ORDER INFORMATION				
All tips are certified. Tips shown actual size.	Pack Type	Sterile	Pack Size	Cat. No.
 <b>200 µl Tip, Individually Wrapped, Yellow</b>	Ind. Wrap	Yes	500	I1011-0016
 <b>1000 µl Tip, Individually Wrapped, Blue</b>	Ind. Wrap	Yes	500	I1011-2011

# Large Volume Tips

ORDER INFORMATION				
All tips are certified and natural in colour (unless stated). Tips shown actual size.		Pack Type	Sterile	Pack Size
Cat. No.				
				
<b>5000 µl Biohit-Style Tip</b> For use with: Biohit®, Eppendorf®, Genex®		Bag	No	250
E1009-7000				
				
<b>5000 µl Biohit-Style XL Tip</b> For use with: Biohit®, Eppendorf®, Genex®		Bag	No	250
E1009-7001				
				
<b>5000 µl Eppendorf-Style Graduated Macro Tip</b> For use with: Eppendorf®, Biohit®, Socorex®		Bag	No	250
		50-Tip Rack	No	10 x 50
		50-Tip Rack	Yes	10 x 50
I1053-0000				
I1053-0700				
I1053-0710				
				
<b>5000 µl Eppendorf-Style Graduated Filter Macro Tip</b> For use with: Eppendorf®, Biohit®		50-Tip Rack	Yes	2 x 50
I1053-0728				
				
<b>5000 µl Finn-Style Tip</b> For use with: ErgoOne® E, Finnpiptette®, Brand®, SMI®, Socorex®		Bag	No	200
		Bag	No	5 x 200
		28-Tip Rack	No	1 x 28
E1070-2596 <sup>1)</sup>				
E1070-2601 <sup>1)</sup>				
E1070-2607				
				
<b>5000 µl Finn-Style Tip</b> For use with: ErgoOne® E, Brand®, Finnpiptette®, Socorex®, SMI®		Bag	No	250
I1009-5000				

<sup>1)</sup>not certified.

FREE SAMPLE  
TRY  
before you  
BUY  
available on request

## ORDER INFORMATION

All tips are certified and natural in colour (unless stated). Tips shown actual size.

Pack Type	Sterile	Pack Size	Cat. No.
-----------	---------	-----------	----------

**5000 µl Gilson-Style Graduated Macro Tip**

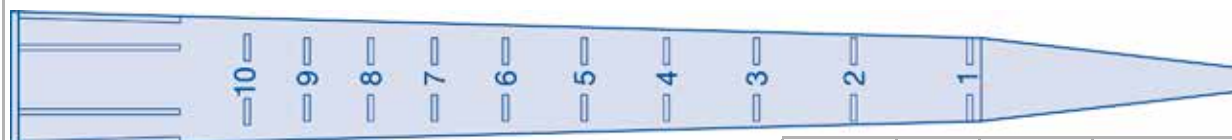
For use with: ErgoOne®, Gilson®, Nichiryo®, StarPet, Volac®

Bag	No	250	I1050-0000
50-Tip Rack	No	10 x 50	I1050-0700
50-Tip Rack	Yes	10 x 50	I1050-0710

**5000 µl Gilson-Style Graduated Macro Filter Tip**

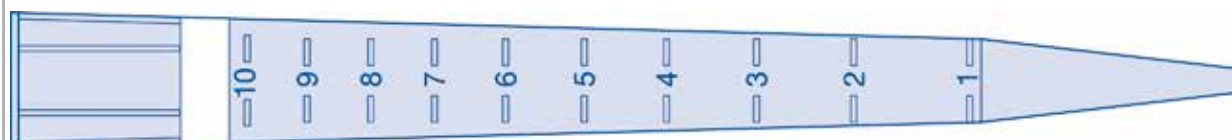
For use with: ErgoOne®, Gilson®, Nichiryo®, StarPet, Volac®

50-Tip Rack	Yes	10 x 50	I1050-0718
50-Tip Rack	Yes	2 x 50	I1050-0728

**10 ml Gilson-Style Graduated Macro Tip**

For use with: Gilson®, Eppendorf®, Rainin®, Socorex®, StarPet

Bag	No	200	I1054-0000
25-Tip Rack	No	10 x 25	I1054-0001
25-Tip Rack	Yes	10 x 25	I1054-0011

**10 ml Gilson-Style Graduated Macro Filter Tip**

For use with: Gilson®, Eppendorf®, Rainin®, Socorex®, StarPet

25-Tip Rack	Yes	2 x 25	I1054-0028
-------------	-----	--------	------------




**10 ml Finn/Socorex-Style Blue Tip**

For use with: Finn®, Socorex®, Accumax®, Biohit®

Bag	No	200	I1052-0000
25-Tip Rack	No	10 x 25	I1052-0001
25-Tip Rack	Yes	10 x 25	I1052-0010

[www.starlab.click/specialitytips](http://www.starlab.click/specialitytips)

# Wide Orifice Tips

ORDER INFORMATION				
All tips are certified and natural in colour. Tips shown actual size.	Pack Type	Sterile	Pack Size	Cat. No.
 <p><b>200 µl Tip / Wide Orifice</b> For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiquette®, MLA®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®</p>	Bag	No	1000	I1011-8000
	96-Tip Rack	No	10 x 96	E1011-8400
 <p><b>200 µl Graduated Tip / Wide Orifice</b> For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiquette®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®</p>	96-Tip Rack	Yes	10 x 96	E1011-8410
	Bag	No	1000	E1011-9000
 <p><b>1000 µl Graduated Tip / Wide Orifice</b> For use with: ErgoOne®, Gilson®, Costar®, Eppendorf®, Finnpiquette®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, SMI®, Socorex®, StarPet, Titertek®, Volac®</p>	Bag	No	1000	E1011-9000
	96-Tip Rack	No	10 x 96	E1011-9400


## TipOne® RPT

Are you working with 'sticky' liquids? Then try STARLAB's TipOne® RPT tips. The optimised conventional polypropylene surface improves the flow of 'sticky' liquids. For more information see pages 16–17.









FREE SAMPLE  
TRY  
before you  
BUY  
available on request




# Gel Extraction Tool

ORDER INFORMATION		
	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
		Cat. No.
		N2000-0100



# Gel-Loading Tips

ORDER INFORMATION					
All tips are certified and natural in colour. Tips shown actual size.		Pack Type	Sterile	Pack Size	Cat. No.
		Length: Total 56.62 mm / Flexible: 25.30mm. Orifice: OD. 0.58mm / ID. 0.30 mm			
<b>10µl Round Gel-Loading Tip</b> For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, StarPet	Bag	No	1000	I1010-3000	
	204-Tip Rack	No	5 x 204	I1010-3600	
	204-Tip Rack	Yes	5 x 204	I1010-3610	
		Length: 56.62 mm /Flexible capillary length: 25.30 mm. Orifice: OD. 0.58mm / ID. 0.30 mm			
<b>10µl Round Gel-Loading Filter Tip</b> For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Nichiryo®, Oxford-Benchmate®, StarPet	204-Tip Rack	Yes	5 x 204	I1010-3800	
		Length: Total 71.25 mm / Flexible capillary 25.3mm. Orifice: OD. 0.58 mm / ID. 0.30 mm			
<b>10µl Round Gel-Loading Tip</b> 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	
		Total Length: 68mm. Orifice: OD. 0.60 mm / ID. 0.30 mm			
<b>20µl Round Gel-Loading Filter Tip</b> For use with: ErgoOne®, Gilson®, Costar®, Eppendorf®, MLA®, Socorex®, Volac®	204-Tip Rack	Yes	5 x 204	E1021-0618	
		Total Length: 68mm. Orifice: OD. 0.60 mm / ID. 0.30 mm			
<b>100µl Round Gel-Loading Filter Tip</b> For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiptette®, Nichiryo®, Oxford-Benchmate®, Socorex®, StarPet, Titertek®, Volac®	Bag	No	1000	E1022-0008	
	204-Tip Rack	Yes	5 x 204	I1022-0810	
		Total Length: 68mm. Orifice: OD. 0.60 mm / ID. 0.30 mm			
<b>200µl Round Gel-Loading Tip</b> For use with: ErgoOne®, Gilson®, Biohit®, Eppendorf®, Finnpiptette®, 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	

ORDER INFORMATION						
All tips are certified and natural in colour. Tips shown actual size.		Pack Type	Sterile	Thickness	Pack Size	Cat. No.
 <b>10µl Flat Gel-Loading Tip</b> 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
 <b>10µl Flat Gel-Loading Tip</b> 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
 <b>200µl Flat Gel-Loading Tip</b> For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, Finnpiptette®, 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

# TipOne® Repeat Dispenser Tips



## Dispenser Tips you'll want to use again!

This range of high quality dispenser tips have a polypropylene cylinder and a polyethylene piston. The extended piston length of most tips minimises dead air volume, improves reagent delivery and provides easier access to narrow vessels.

## Features

- ▶ Up to 100 dispenser steps with Multipipette® Plus
- ▶ Separate, colour-coded adapters for 25 ml & 50 ml tips
- ▶ Lower dispensing forces
- ▶ High accuracy and precision
- ▶ ISO 8655 manufactured



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

<sup>1)</sup> 25ml and 50ml tips are supplied with four adapters.  
**Note:** TipOne® Repeat Dispenser Tips are not autoclavable.

COMPATIBILITY	
STARLAB	RepeatOne®
Brand	Handystep® Manual. Handystep® S. HandyStep® Electronic
Denville	Fastsepper®
Eppendorf	Multipipette® 4780. Multipipette® Plus <sup>1)</sup> . Multipipette® stream / Xstream <sup>2)</sup>
Gilson	Distriman®. Pipetman®. Repetman®
Labnet	Labpette®
Nichiryo / Oxford	Nichimate® Stepper
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. Finnpiipette® Stepper

<sup>1)</sup> Tip recognition works only with old sensor (prior to service).  
<sup>2)</sup> For use with models manufactured prior to Dec 2013 only.

TipOne® Repeat

## Repeat Dispenser

See page 44 for ordering details of STARLAB's RepeatOne® Dispenser



 [www.starlab.click/dispensertips](http://www.starlab.click/dispensertips)

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	1000 µl	1500 µl	2000 µl	2500 µl
50 ml	1000 µl	2000 µl	3000 µl	4000 µl	5000 µl
<b>Steps<sup>1)</sup></b>	<b>48</b>	<b>23</b>	<b>15</b>	<b>11</b>	<b>8</b>

<sup>1)</sup> Number of steps may vary according to dispenser manufacturer.



**OVERVIEW** ..... 26

**TIP-ROBOT COMPATIBILITY** ..... 27

**TIPS FOR BECKMAN COULTER®**

Biomek® i-series, Biomek® 3000 & 4000 ..... 28–29

Biomek® FX & NX ..... 28–29

Multimek® ..... 28–29

**TIPS FOR PACKARD®**

MultiProbe® II ..... 30

MultiProbe® IIHT/EX ..... 30

**TIPS FOR TECAN®**

Freedom EVO® ..... 31

Genesis & MiniPrep ..... 31

**TIPS FOR PERKIN ELMER®**

Janus® ..... 32

Evolution® P<sup>3</sup>, MiniTrak™ & PlateTrak™ ..... 32

**TIPS FOR QIAGEN®**

QIAgility® (formerly Corbett CAS-1200) ..... 32

**ROBOTIC RESERVOIRS** ..... 32

# Robotic Tips Overview



STARLAB robotic tips are engineered to the same specifications as the original, equipment manufacturer's tips to ensure both compatibility and a consistent fit. Don't 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. We recommend to request samples of robotic tips to verify compatibility with your system.

## Purchasing flexibility

STARLAB likes to make things as simple as possible for its customers. We realise that you may need to order robotic consumables in large quantities, but may not have the space to store them. STARLAB can help with call-off orders where you buy and own the product, but we store it in our warehouse and 'call off' delivery to you, as and when you need it. Alternatively, you may place a standing order and have a pre-determined quantity delivered at regular intervals. Contact us to discuss your options.



## 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 18 for more information on the different recycling options available.

# Tip–Robot Compatibility

GO TO:	Page 28	Page 29	Page 30	Page 31	Page 32
<b>Aurora Biomed® Versa™:</b> 8-Channel			✓	✓	
<b>Biomek® i-Series:</b> 300 & 1200 µl Multichannel-96 Heads & Span-8 Pod	✓	✓			
<b>Beckman® Biomek® 3000:</b> AP96, MP20, MP200	✓	✓			
<b>Beckman® Biomek® 4000:</b> AP96, MP20, MP200	✓	✓			
<b>Beckman® Biomek® FX:</b> AP96, MP20, MP200	✓	✓			
<b>Beckman® Biomek® FX:</b> SPAN-8	✓	✓			
<b>Beckman® Biomek® NX:</b> AP96, MP20, MP200	✓	✓			
<b>Beckman® Biomek® NX:</b> SPAN-8	✓	✓			
<b>Beckman® Multimek®:</b> AP96, MP20, MP200	✓	✓			
<b>Corbett® CAS-1200:</b> Single-Channel Head			✓	✓	
<b>Gilson® Cyberlab®</b>	✓				
<b>Packard® Multiprobe® II:</b> Varispan 4 or 8 head probe			✓		
<b>Packard® Multiprobe® IIHT/EX:</b> Varispan 4 or 8 head probe			✓		
<b>Perkin Elmer® Evolution® P3:</b> MDT-96 P50					✓
<b>Perkin Elmer® Janus®:</b> MDT-96 P50					✓
<b>Perkin Elmer® MiniTrak™:</b> MDT-96 P50					✓
<b>Perkin Elmer® PlateTrak™:</b> MDT-96 P50					✓
<b>Qiagen® QiAgility®:</b> Single-Channel Pipette			✓	✓	✓
<b>Tecan® Freedom EVO®:</b> LiHa-1, -4 & -8				✓	✓
<b>Tecan® Genesis:</b> LiHa-1, -4 & -8				✓	✓
<b>Tecan® MiniPrep:</b> LiHa-1, -4 & -8				✓	✓

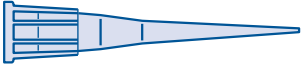
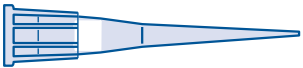



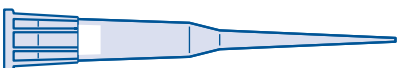
This chart is intended as a guide only. Please check the relevant page to ensure a specific tip's compatibility with your robotic system and the head type. Contact us for a free sample rack of tips to ensure compatibility with your robotic system.



# Tips for Beckman Coulter®

Biomek® i-Series • Biomek® FX • Biomek® NX •  
Biomek® 3000 • Biomek® 4000 • Multimek®

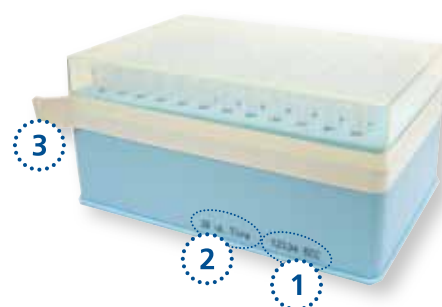
- ▶ No programming or software changes required!
- ▶ Ensured tip compatibility and consistent fit
- ▶ AP96 and SPAN-8 Compatible
- ▶ You can recycle the empty racks with your other plastic recycling (see page 18)
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free

ORDER INFORMATION			
	Rack Style / Head	Non-Sterile	Sterile
		10 x 96-Tip Racks	10 x 96-Tip Racks
 <b>20 µl Tip</b>	Pale Blue SBS Rack AP96, SPAN-8, MP20	<b>E1076-4400</b>	<b>E1076-4410</b>
 <b>20 µl Filter Tip</b>	Pale Blue SBS Rack AP96, SPAN-8, MP20	<b>n/a</b>	<b>E1076-4418</b>
 <b>50 µl Tip</b>	Orange SBS Rack AP96, SPAN-8, MP20, MP200	<b>E1076-2400</b>	<b>E1076-2410</b>
 <b>50 µl Filter Tip</b>	Orange SBS Rack AP96, SPAN-8, MP20, MP200	<b>n/a</b>	<b>E1076-2418</b>
 <b>250 µl Tip</b>	Green SBS Rack AP96, SPAN-8, MP200	<b>E1076-0400</b>	<b>E1076-0410</b>
 <b>175 µl Filter Tip</b>	Green SBS Rack AP96, SPAN-8, MP200	<b>n/a</b>	<b>E1076-0418</b>

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

 [www.starlab.click/robotictips](http://www.starlab.click/robotictips)

1. Lot No. printed on every rack
2. Tip volume printed on every rack
3. Easy-release tape opening on sterile product





## Economical, eco-friendly and space saving refill system!

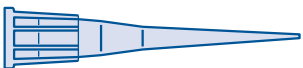

- ▶ Refillable racks and space-saving refill stacks
- ▶ Refills take up 40% less space!
- ▶ AP96 and SPAN-8 compatible
- ▶ Reusable racks means less waste and less cost
- ▶ No programming or software changes required
- ▶ You can recycle the used refills with your other plastic recycling (see page 18)
- ▶ Certified RNase, DNase, DNA and PCR Inhibitor free



1. System is colour-coded same as 'normal' racks
2. Tip volume and Lot No. printed on every refill
3. Easy racking with easy to located tabs on each refill

## Refillable racks

Buy the refillable racks first, to get yourself started.

ORDER INFORMATION		
Refillable Racks	Rack Style / Head	Non-Sterile
		<b>10 x 96-Tip Refillable Racks</b>
 <b>20 µl Tip</b>	Pale Blue Refillable Rack AP96, SPAN-8	<b>E1076-4800</b>
 <b>250 µl Tip</b>	Green Refillable Rack AP96, SPAN-8	<b>E1076-0800</b>

## Refills

When the tips are used, reuse the racks with these refills, to save both money and plastic waste!

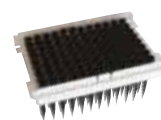
ORDER INFORMATION		
Refills	Rack Style / Head	Non-Sterile
		<b>10 x 96-Tip Refills</b>
 <b>20 µl Tip</b>	Pale Blue Refill AP96, SPAN-8	<b>E1076-4700</b>
 <b>250 µl Tip</b>	Green Refill AP96, SPAN-8	<b>E1076-0700</b>



















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



ORDER INFORMATION			
	Rack Style / Head	Non-Sterile	Sterile
		24 x 96-Tip Racks	24 x 96-Tip Racks
 <b>10 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-3700</b>	<b>R1081-3700</b>
 <b>10 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-3810</b>	<b>R1028-3810</b>
 <b>50 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-5700</b>	<b>R1081-5700</b>
 <b>50 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-5810</b>	<b>R1028-5810</b>
 <b>200 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-0700</b>	<b>R1081-0700</b>
 <b>200 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-0810</b>	<b>R1028-0810</b>
 <b>1000 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-2700</b>	<b>R1081-2700</b>
 <b>1000 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-2810</b>	<b>R1028-2810</b>
 <b>10 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-3709</b>	<b>R1081-3709</b>
 <b>10 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-3819</b>	<b>R1028-3819</b>
 <b>50 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-5709</b>	<b>R1081-5709</b>
 <b>50 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-5819</b>	<b>R1028-5819</b>
 <b>200 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-0709</b>	<b>R1081-0709</b>
 <b>200 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-0819</b>	<b>R1028-0819</b>
 <b>1000 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-2709</b>	<b>R1081-2709</b>
 <b>1000 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-2819</b>	<b>R1028-2819</b>

















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 Tecan® (with LiHa)

## Freedom EVO® • Genesis • MiniPrep





ORDER INFORMATION			
	Rack Style / Head	Non-Sterile	Sterile
		24 x 96-Tip Racks	24 x 96-Tip Racks
 <b>10 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-3700</b>	<b>R1081-3700</b>
 <b>10 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-3810</b>	<b>R1028-3810</b>
 <b>50 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-5700</b>	<b>R1081-5700</b>
 <b>50 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-5810</b>	<b>R1028-5810</b>
 <b>200 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-0700</b>	<b>R1081-0700</b>
 <b>200 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-0810</b>	<b>R1028-0810</b>
 <b>1000 µl Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-2700</b>	<b>R1081-2700</b>
 <b>1000 µl Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-2810</b>	<b>R1028-2810</b>
 <b>10 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-3709</b>	<b>R1081-3709</b>
 <b>10 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-3819</b>	<b>R1028-3819</b>
 <b>50 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-5709</b>	<b>R1081-5709</b>
 <b>50 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-5819</b>	<b>R1028-5819</b>
 <b>200 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-0709</b>	<b>R1081-0709</b>
 <b>200 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-0819</b>	<b>R1028-0819</b>
 <b>1000 µl Conductive Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1181-2709</b>	<b>R1081-2709</b>
 <b>1000 µl Conductive Filter Tip</b>	White Hanging Rack Varispan with 4 or 8 head probe	<b>R1128-2819</b>	<b>R1028-2819</b>

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.


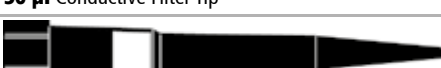
# Tips for Perkin Elmer®

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

ORDER INFORMATION			
	Rack Style / Head	Non-Sterile	Sterile
		10 x 96-Tip Racks	10 x 96-Tip Racks
 <b>20 µl Tip</b>	Green SBS Rack MDT-96 P50	<b>E1078-2400</b>	<b>n/a</b>
 <b>50 µl Tip</b>	Green SBS Rack MDT-96 P50	<b>E1078-5400</b>	<b>n/a</b>

# Tips for Qiagen®

QIAgility® (formerly CAS-1200)

ORDER INFORMATION			
	Rack Style / Head	Non-Sterile	Sterile
		10 x 96-Tip Racks	10 x 96-Tip Racks
 <b>50 µl Conductive Filter Tip</b>	Clear Hanging Rack Single-Channel Pipette	<b>n/a</b>	<b>E1172-1418</b>
 <b>200 µl Conductive Filter Tip</b>	Clear Hanging Rack Single-Channel Pipette	<b>n/a</b>	<b>E1173-2418</b>

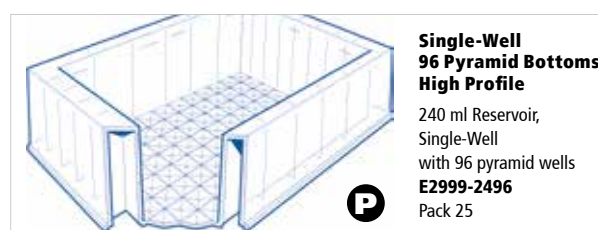
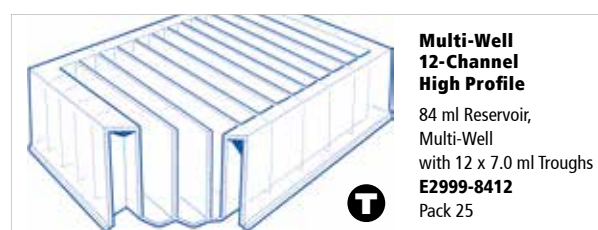
Also compatible with Tecan® robotic systems: Freedom EVO® Genesis® series and MiniPrep®

## 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. The sturdy polypropylene construction ensures rigidity during automation and excellent chemical resistance.

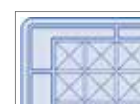
All robotic reservoirs are certified RNase, DNase and Pyrogen free.



 [www.starlab.click/roboticreservoirs](http://www.starlab.click/roboticreservoirs)



**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



## MANUAL PIPETTES

ErgoOne® Pipettes: Overview .....	34–35
ErgoOne® Single-Channel Pipettes .....	36
ErgoOne® Multi-Channel Pipettes .....	37

## ELECTRONIC PIPETTES

ErgoOne® E Electronic Pipettes .....	38–39
--------------------------------------	-------

## PIPETTE CONTROLLERS

ErgoOne® FAST (Electronic) .....	40–41
StarPet Filler (Manual) .....	41

PIPETTE STANDS .....	42
----------------------	----

## POLYSTYRENE PIPETTES

Serological Pipettes .....	43
Aspiration Pipettes .....	43

## REPEAT DISPENSER

RepeatOne® Dispenser .....	44
----------------------------	----



# 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 new 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.

All ErgoOne® pipettes are sold with a 3-year warranty.

## ErgoOne® Features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Colour coded
- ▶ Volume lock
- ▶ Universal tip fit



1. Easily removable lower part for fast cleaning
2. Wear-resistant polymer tip holders
3. Tip ejector with integrated cascade to lower the tip ejection force





# ErgoOne®

1. Colour coding - matches the colour coding of TipOne Tips
2. Ergonomically designed - Finger rest ensures comfort and ease during use
3. Contoured chemically-resistant PP handle
4. Lightweight
5. Fully autoclavable - Can also be UV sterilised
6. Easily removable tip ejector for fast cleaning
7. Universal tip fit!
8. Integral, rust-free tip ejector
9. Reduced diameter tip ejector - For easy access into small tubes
10. Volume display - Positioned so it is visible during pipetting, 4-digit volume display for greater accuracy, for right and left-handed
11. Smooth action tip ejector
12. Volume lock - Prevents drift during use

\*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-Channel Pipettes

ORDER INFORMATION							
Volume Range (Colour Coding)	Increments	Volume µl	Systematic Error (Inaccuracy) ±%		Random Error (Imprecision) ±%		Cat. No.
			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	
2.0 –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	
2.0 –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 TinOne® tins. 3-year warranty.							

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips. 3-year warranty.

## Setting the new standard in pipetting

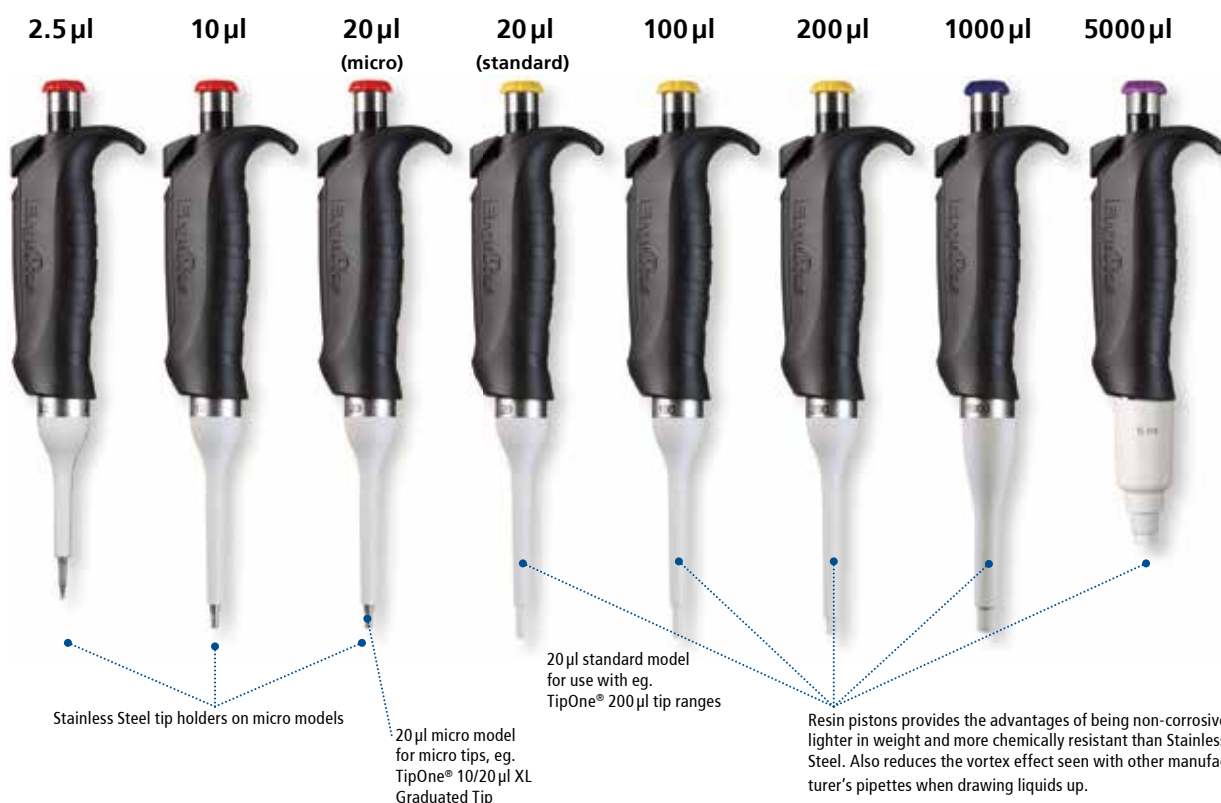
The ErgoOne® single-channel pipette range consists of eight models covering the volume range 0.1 µl to 5 ml.

All ErgoOne® pipettes are sold with a 3-year warranty.

**ErgoOne®**

## Product features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Colour coded
- ▶ Volume lock
- ▶ Universal tip fit



# ErgoOne® Multi-Channel Pipettes

ORDER INFORMATION							
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. 3-year warranty.							

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips. 3-year warranty.

 [www.starlab.click/manualpipettes](http://www.starlab.click/manualpipettes)

**DEMO MODELS**  
**TRY**  
before you  
**BUY**  
available on request

## 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.

All ErgoOne pipettes are sold with a 3-year warranty.

## Product features

- ▶ Minimal operating forces
- ▶ Lightweight ergonomic design
- ▶ Colour coded
- ▶ Volume lock
- ▶ Universal tip fit



# 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 pipettes are sold with a 1-year warranty.

## Product features

- ▶ Easy to use intuitive menu structure
- ▶ Lightweight, ergonomic design
- ▶ Adjustable finger rest for individual comfort
- ▶ Significantly reduced tip loading and ejection forces
- ▶ Universal tip fit

# ErgoOne® E

1. Ergonomic, easy to reach pipetting button
2. Colour-coded ejector button provides significantly reduced ejection forces
3. 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
4. Comfortable, ergonomic hand grip
5. Autoclavable pipette shaft
6. Significantly reduced tip loading forces
7. 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.



ORDER INFORMATION				
Volume Range	Increments	Systematic Error (Inaccuracy) ±%	Random Error (Imprecision) ±%	Cat. No.
<b>Single-Channel Pipettes</b>				
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
<b>8-Channel Pipettes</b>				
0.5–10 µl (red)	0.01 µl	8.0/2.0/1.2	4.0 to 0.8	G9008-0010
1.0–20 µl (red)	0.02 µl	8.0/2.0/1.0	3.0 to 0.5	G9008-0020
5.0–100 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
<b>12-Channel Pipettes</b>				
0.5–10 µl (red)	0.01 µl	8.0/2.0/1.2	4.0 to 0.8	G9012-0010
1.0–20 µl (red)	0.02 µl	8.0/2.0/1.0	3.0 to 0.5	G9012-0020
5.0–100 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 (ie, max. volume) and the indicated volume steps, according to DIN EN ISO 8655. 1-year warranty.				



#### 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!

ACCESSORIES		
Description	Pack Size	Cat. No.
AC Adapter for Europe/UK (230V/50 Hz)	1	G9999-1000
Charging Stand with AC Adapter for Europe/UK (230V/50 Hz) for 3 Single-Channel Pipettes up to 1000 µl	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 Pipette and all Multi-Channels)	1	G9999-1007
Fluorostatic Grease for Guiding Axis (for Multi-Channel Pipettes)	1	G9999-1008



G9999-1001



G9999-1002



G9999-1004

# ErgoOne® FAST Pipette Controller



**ErgoOne® FAST**

## Efficient pipetting

During development of the 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 four seconds!

## Ergonomy meets modernity

Every aspect of 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 to provide fatigue-free pipetting, even during long periods.

ErgoOne® FAST is sold with a 2-year warranty.

**FAST** stands for

**F**lexible, **A**ccurate & Precise, **S**afe, **T**ransfer

## Product features

- ▶ Intuitive, pressure-responsive speed control
- ▶ Provides fast pipetting with maximum precision
- ▶ Low operating forces
- ▶ Lightweight and ergonomically designed for fatigue-free pipetting
- ▶ Use with all plastic or glass serological pipettes (1.0–100 ml)



### 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 traffic light system for easy, visual identification.



### Modern battery technology

Completely charged, the battery can perform 2000 x 25 ml dosing cycles. The 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!



### Precise handling of pipettes

ErgoOne® FAST with serological pipette



ORDER INFORMATION		
Description	Pack Size	Cat. No.
ErgoOne® FAST Pipette Controller <sup>1)</sup>	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)	5	P7166-6605
0.45 µm Membrane Filter, PTFE (Sterile)	5	P7166-6800
Replacement Seal for Filter Adapter	5	P7166-6904
Replacement Pipette Adapter (Silicone)	1	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	1	P7166-6109
ErgoOne® FAST Pipette Benchtop Support	1	P7166-6306
<sup>1)</sup> ErgoOne® FAST is supplied with a battery, a power supply, 0.2 µl filter, 0.45 µl filter and a wall mount. 2-year warranty.		

TECHNICAL 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



P7166-6306  
Benchtop Support

### A perfect match – Serological Pipettes

#### More details:

see page 43 or visit  
[www.starlab.click/serologicals](http://www.starlab.click/serologicals)



## StarPet Filler (Manual)












**DEMO MODELS**  
**TRY**  
before you  
**BUY**  
available on request

Use with all plastic or glass pipettes, 1.0 ml to 25 ml. This manual pipette filler has an exceptionally smooth operation. Two dispense modes: one delivers fast filling with optimal accuracy for 10 ml to 25 ml pipettes; the other is for use with 1.0 ml to 10 ml 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, 1.0 ml to 25 ml
- ▶ Exceptionally smooth operation
- ▶ Autoclavable silicon pipette holder

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

ORDER INFORMATION					
	Description	Cat. No.		Description	Cat. No.
	<b>ErgoOne® Universal Carousel Stand for up to 8 pipettes (UV Resistant)</b>  <i>For use with:</i> ErgoOne®, Biohit®, Finn®, Gilson®, Rainin® single or multi-channel pipettes	S7200-0000		<b>ErgoOne® Wall Mount</b>  <i>For use with:</i> ErgoOne® single or multi-channel pipettes	S7200-0001
	<b>ErgoOne® Self-Adhesive Shelf Holder for 1 pipette (UV Resistant)</b>  <i>For use with:</i> ErgoOne® single or multi-channel pipettes	E3099-0001		<b>ErgoOne® Bench Support for 1 pipette</b>  <i>For use with:</i> ErgoOne® single-channel pipettes	E3099-0002
	<b>ErgoOne® E Individual Stand for single-channel pipettes</b>  <i>For use with:</i> ErgoOne® E single-channel pipettes	For 10 µl to 1000 µl pipettes G9999-1002		<b>Universal Acrylic Pipette Stand for up to 5 pipettes (UV Resistant)</b>  <i>For use with:</i> ErgoOne®, Biohit®, Finn®, Eppendorf®, Gilson®, Rainin® single or multi-channel pipettes	E3099-0000
		For 5000 µl pipettes G9999-1003			
	<b>ErgoOne® E Charging Stand - for up to 3 pipettes</b>  <i>For use with:</i> ErgoOne® E single-channel pipettes	G9999-1001		<b>ErgoOne® E Individual Stand for multi-channels pipettes</b>  <i>For use with:</i> All volumes of ErgoOne® E multi-channel pipettes	G9999-1004
				<b>ErgoOne® FAST Bench Support for 1 pipette</b>  <i>For use with:</i> ErgoOne® FAST pipette controller	P7166-6306

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

# Serological Pipettes

**New!**



## Discover the possibilities!

The pipettes are constructed from polystyrene for sterile serological and tissue culture applications. Colour-coding on both the pipettes and the packaging provides easy identification. The black printed, easy to read ascending and descending graduations simplify fluid measuring and dispensing, and all pipettes (excl. 100 ml) feature negative graduations for extra working volume. Perfect for use with all popular pipette controllers, including ErgoOne® FAST.

## Product features

- ▶ Accuracy  $\pm 2\%$
- ▶ Bidirectional graduations provide added applicability
- ▶ Non-cytotoxic and non-haemolytic USP Class VI polystyrene
- ▶ Gamma sterilized to SAL  $10^{-6}$  (ISO11137)
- ▶ Certified RNase, DNase, latex and pyrogen free

ORDER INFORMATION		
Description	Pack Size	Cat. No.
1.0 ml Serological Pipette (sterile), individually wrapped	500	E4860-0001
2.0 ml Serological Pipette (sterile), individually wrapped	500	E4860-0002
5.0 ml Serological Pipette (sterile), individually wrapped	200	E4860-0005
10 ml Serological Pipette (sterile), individually wrapped	200	E4860-0010
25 ml Serological Pipette (sterile), individually wrapped	150	E4860-0025
50 ml Serological Pipette (sterile), individually wrapped	100	E4860-0050
100 ml Serological Pipette (sterile), individually wrapped	50	E4860-1100

TECHNICAL SPECIFICATIONS							
Color	yellow	green	blue	orange	red	violet	pink
Volume	1 ml	2 ml	5 ml	10 ml	25 ml	50 ml	100 ml

[www.starlab.click/serologicalpipettes](http://www.starlab.click/serologicalpipettes)



# Aspiration Pipettes

**New!**



Sterile, polystyrene pipette without a filter or graduations. Aspiration pipettes are used for vacuum aspirating procedures or transfers of fluids where accuracy is not a requirement.

ORDER INFORMATION		
Description	Pack Size	Cat. No.
2.0 ml Aspiration Pipette (sterile), Ind. wrapped	500	E4861-0002
5.0 ml Aspiration Pipettes (sterile), Ind. wrapped	200	E4861-0005
10.0 ml Aspiration Pipettes (sterile), Ind. wrapped	200	E4861-0010

[www.starlab.click/aspirationpipettes](http://www.starlab.click/aspirationpipettes)

# RepeatOne® Dispenser



## Rapid dispensing!

RepeatOne® is a hand-held device for repetitive and rapid dispensing of volumes 2 µl to 5 ml.

## Compatibility

RepeatOne® can be used with the following dispenser tips:

- ▶ STARLAB TipOne® Repeat Dispenser Tips
- ▶ Brand®
- ▶ Gilson®
- ▶ HTL®
- ▶ Ritter®

## 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

# RepeatOne®

## ORDER INFORMATION

Description	Pack Size	Cat. No.
RepeatOne® Dispenser	1	S4026-1500
<b>Accessories</b>		
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. 2-year warranty.

**A perfect match –**  
TipOne® Repeat Tips

**More details:**  
see page 24 or visit  
[www.starlab.click/dispensertips](http://www.starlab.click/dispensertips)



## 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](http://www.starlab.click/repeatdispenser)



**We are happy  
to serve you at  
your place!**

On-Site service protects  
the environment, minimize  
"down-time" of your pipette  
and saves charges for freight.

**PIPETTE SERVICING ..... 46**

**SERVICE LEVELS**

Servicing & Calibration ..... 46 – 47

**ORDER FORM ..... 48**

# STARLAB Pipette Servicing

## Accredited pipette service and repair services

Our Pipette Service for all brands of pipettes offers competent "all-round service" from one source.

High-ranking satisfaction of our customers is based on our superior quality and speediness as well as a result of 10 years experience in calibration and repair services.

## Your benefits at a glance:

- ▶ DAKS accreditation according to ISO 17025
- ▶ Certification according to ISO 9001, 14001 and 13485
- ▶ High quality and swift turnaround for all brands of pipettes
- ▶ Single and multi-channel pipettes, manual and electronic, dispensers, pipette controllers and bottle-top dispensers
- ▶ Certificates of Calibration as hard copy or electronically on request
- ▶ On-Site service

## Services & Solutions

- ▶ Pipette disassembly and inspection
- ▶ Leak test
- ▶ Replacement of worn parts
- ▶ Internal & external cleaning
- ▶ Calibration according to ISO 8655 and DKD-R-8-1
- ▶ Certificate of Calibration

Recommended for:		STANDARD SERVICE LEVELS							
		2 Star Easy ★ ★		2 STAR ★ ★		3 STAR ★ ★ ★		GLP 3 STAR ★ ★ ★	
		Standard Check		Quality Check		Conformity Check in compliance with EN ISO 8655 and DKD-R 8-1		Conformity Check in compliance with EN ISO 8655 and DKD-R 8-1 including As found measurement	
		Laboratories who wish to keep costs down or for check between Service intervals		Laboratories without regulated QM-System		Laboratories with ISO/DKD regulations		Laboratories with GMP, GLP or GCLP regulations (As Found measurement)	
Service	Pipette disassembled and inspected, leak test, worn parts replaced,* Internal cleaning	✓		✓		✓		✓	
	External cleaning	✓		✓		✓		✓	
Calibration	Number of test volumes	2**		3		3**		3**	
	Readings of test volume	4		4		10		10	
	Calibration Certificate with actual value	✓		✓		✓		✓	
	Entrance (As Found) measurement with Calibration Certificate of actual value	n/a		n/a		n/a		✓	
		ISO 8655 Specifications (standard)	Manufacturer Specifications	ISO 8655 Specifications (standard)	Manufacturer Specifications	ISO 8655 Specifications (standard)	Manufacturer Specifications	ISO 8655 Specifications (standard)	Manufacturer Specifications
	Single-channel fixed volume	✓	✓	n/a	n/a	✓	✓	✓	✓
	Single-channel variable volume, manual / electronic, dispenser	✓	✓	✓	✓	✓	✓	✓	✓
	8-Channel, manual / electronic	✓	✓	✓	✓	✓	✓	✓	✓
	12-Channel, manual / electronic	✓	✓	✓	✓	✓	✓	✓	✓
	Bottle-top dispenser	n/a	✓	n/a	✓	n/a	✓	n/a	✓
	Further services/ special requirements	On request							
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 contact us accordingly.									
** For single-channel fixed volume pipettes 1 test volume only. Optionally manufacturer's specifications or to ISO 8655 (standard).									
All measurements are carried out with TipOne® pipette tips.									
If you prefer the calibration to be carried out with the original manufacturer's tips, please provide us with a sufficient quantities.									



# Accredited calibration laboratory

The precise and accurate function of pipettes and dispensers are irreplaceable in your daily laboratory routine. In order to meet our quality standards, our calibration laboratory of STARLAB International GmbH has been accredited according to ISO 17025 by the Deutsche Akkreditierungsstelle (DAkkS). You can be utterly sure that this accreditation meets the highest international standards.

Moreover, STARLAB International GmbH is certified according to ISO 9001, 14001 and 13485 and we conduct regular internal and external audits.



Deutsche  
Akkreditierungsstelle  
D-K-20788-01-00

Recommended for:		SERVICE LEVELS					
		As Found measurement		As Returned measurement		As Found and As Returned Measurement	
		Accredited and certified laboratories requiring verification of traceability (As Found measurement only)		Accredited and certified laboratories requiring verification of traceability (As Returned measurement only)		Accredited and certified laboratories requiring verification of traceability (As Found and As Returned)	
Calibration	Number of test volumes	3**		3**		3**	
	Readings of test volume	10		10		10	
	Calibration Certificate with actual value	✓		✓		✓	
	Entrance (As Found) measurement with Calibration Certificate of actual value	✓		-		✓	
		ISO 8655 Specifications (standard)	Manufacturer Specifications	ISO 8655 Specifications (standard)	Manufacturer Specifications	ISO 8655 Specifications (standard)	Manufacturer Specifications
	Single-channel fixed volume	✓	✓	✓	✓	✓	✓
	Single-channel variable volume, manual / electronic, dispenser	✓	✓	✓	✓	✓	✓
	8-Channel, manual / electronic	✓	✓	✓	✓	✓	✓
	12-Channel, manual / electronic	✓	✓	✓	✓	✓	✓
	Further services/ special requirements	On request					
** For single-channel fixed volume pipettes 1 test volume only. Optionally manufacturer's specifications or to ISO 8655 (standard).							
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 quantities.							

## Do you have any questions?

For further information please see our order form and visit our website at [www.starlab.click/pipetteservice](http://www.starlab.click/pipetteservice). Did you find our service offer comprehensive? In case you have any further questions, please do not hesitate to contact us by e-mail at [service@starlab.de](mailto:service@starlab.de), by phone at +49 (0)40 675 99 39 12 or simply use our pipette service order form at [www.starlab.click/pipetteservice](http://www.starlab.click/pipetteservice).

# Service form

Delivery Address	

Invoice Address
Please only fill in if deviates from delivery address.

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

Calibration interval (please tick one)				Estimate of costs (please tick one)				Specifications according to (please tick one)							
annually		twice a year		quarterly		from 30,- €* * per pipette		from 50,- €* * per pipette		ISO 8655 (standard)		manufacturer		customer's SOP	

Service Level (please tick one)
<input type="checkbox"/> 2 STAR <input type="checkbox"/> 2 STAR easy <input type="checkbox"/> 3 STAR <input type="checkbox"/> GLP 3 STAR <input type="checkbox"/> DAkkS input measurement <input type="checkbox"/> DAkkS service & calibration

**Please note:** Our Standard 2 Star calibration according to ISO 8655 with a yearly test interval will be performed, if the above boxes not be ticked.

Pipette information / Calibration requirements			
Manufacturer	Volume	Serial No.	Comment / identified problem
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

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 cannot process 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 type of contamination?	
Method of decontamination:	
We confirm that our pipettes have been cleaned and decontaminated of any microbiological, chemical or radioactive contamination and that they are safe to handle.	<div>Date</div> <div>Signature</div>

**STARLAB International GmbH / Pipette Service**  
 Neuer Höltingbaum 38 • 22143 Hamburg  
 T: +49 40 675 99 39 12 • F: +49 40 675 99 39 20  
[service@starlab.de](mailto:service@starlab.de) • [www.starlabgroup.com](http://www.starlabgroup.com)



## TUBES

Microcentrifuge Tubes .....	50–54
Microcentrifuge Tube Accessories.....	55
Preparation Tubes .....	55
Screw Cap Microtubes.....	56–57
Cryogenic Vials .....	58
Centrifuge Tubes 15 ml & 50 ml .....	59
Culture Tubes.....	59
Microtubes in Rack.....	60

## PCR CONSUMABLES

PCR Tubes.....	61
PCR Strips .....	62–65
PCR Disks.....	65
Non-Skirted PCR Plates .....	66–67
Semi-Skirted PCR Plates .....	68
Skirted PCR Plates.....	69
PCR Plate-Sealing Overview.....	70

## PLATES

PlateOne® Deepwell Plates.....	71
PlateOne® Microplates.....	72

## PLATE SEALING

Sealing Films & Foils.....	73–74
Sealing Accessories.....	73

## PARAFILM®

Parafilm® Sealing Film.....	75
-----------------------------	----

## FILTRATION FUNNELS..... 75

## REAGENT RESERVOIRS ..... 76–77

## LABELLING

Laboratory Labels.....	78
Laboratory ID Tape.....	79
BMP™ 21 - LAB Label Printer .....	80
Label Cartridges for BMP™ 21 Printer Series....	81
Label Cartridges for LabPal™ & LabXpert™ .....	82

# 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.

TubeOne® 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 antistatic 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®



### Did you know?

100 TubeOne® tubes fit nicely into a Large TipOne® rack for safe storage or for autoclaving. Or save on autoclaving costs by buying the convenient mini-packs!

## ORDER INFORMATION

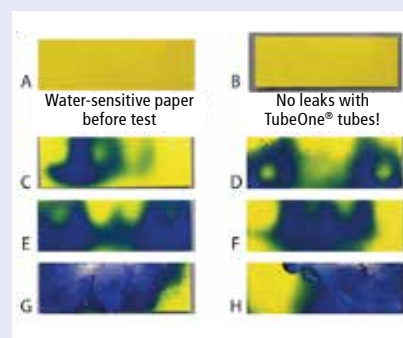
Description / Tube Colour	Sterile	Pack Size	Cat. No.
<b>0.5 ml TubeOne® Microcentrifuge Tubes</b>			
0.5 ml TubeOne® Microcentrifuge Tube, Natural	No	5 x 200	S1605-0000
0.5 ml TubeOne® Microcentrifuge Tube, Mixed <sup>1)</sup>	No	5 x 200	S1605-0099
<b>1.5 ml TubeOne® Microcentrifuge Tubes</b>			
1.5 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 <sup>1)</sup>	No	5 x 100	S1615-5599
<b>2.0 ml TubeOne® Microcentrifuge Tubes</b>			
2.0 ml TubeOne® Microcentrifuge Tube, Natural	No	500	S1620-2700
2.0 ml TubeOne® Microcentrifuge Tube, Mixed <sup>1)</sup>	No	5 x 100	S1620-2799

<sup>1)</sup>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](http://www.starlab.click/tubeone)



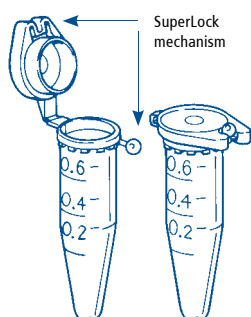
### Crystal Clear Tubes – The difference is clear!

- ▶ '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

#### ORDER INFORMATION

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

#### ORDER INFORMATION

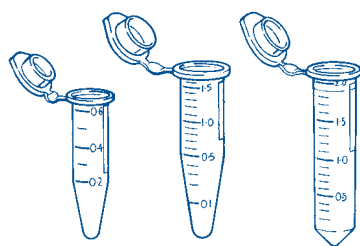
Description	Sterile	Pack Size	Cat. No.
0.5 ml SuperLock Microcentrifuge Tube, Natural	No	1000	E1405-5100
1.5 ml SuperLock Microcentrifuge Tube, Natural	No	500	E1415-5100
2.0 ml SuperLock Microcentrifuge Tube, Natural	No	500	E1420-5100
2.0 ml SuperLock Microcentrifuge Tube, Mixed <sup>1)</sup>	No	500	E1420-5108

<sup>1)</sup>Mixed packs contain following colour tubes: blue, green, orange, pink, violet and yellow.

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

 [www.starlab.click/microcentrifugetubes](http://www.starlab.click/microcentrifugetubes)

# 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.

ORDER INFORMATION			
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	I 1420-2600



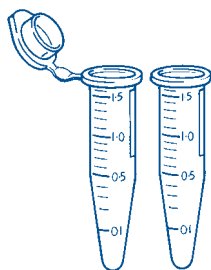
## High speed tubes

- ▶ 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

ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No.
0.5 ml Homopolymer Microcentrifuge Tube	Natural	1000	I1405-1500
0.5 ml Homopolymer Microcentrifuge Tube	Blue	1000	I1405-1501
0.5 ml Homopolymer Microcentrifuge Tube	Green	1000	I1405-1502
0.5 ml Homopolymer Microcentrifuge Tube	Orange	1000	I1405-1503
0.5 ml Homopolymer Microcentrifuge Tube	Red	1000	I1405-1504
0.5 ml Homopolymer Microcentrifuge Tube	Violet	1000	I1405-1505
0.5 ml Homopolymer Microcentrifuge Tube	Yellow	1000	I1405-1506
0.5 ml Homopolymer Microcentrifuge Tube	Amber	1000	I1405-1507
0.5 ml Homopolymer Microcentrifuge Tube	Mixed	1000	I1405-1508



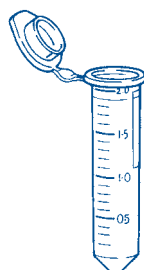




ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No.
1.5 ml Homopolymer Microcentrifuge Tube	Natural	500	I1415-1000
1.5 ml Homopolymer Microcentrifuge Tube	Blue	500	I1415-1001
1.5 ml Homopolymer Microcentrifuge Tube	Green	500	I1415-1002
1.5 ml Homopolymer Microcentrifuge Tube	Orange	500	I1415-1003
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



ORDER INFORMATION			
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



ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No.
2.0 ml Homopolymer Microcentrifuge Tube	Natural	500	I1420-2700
2.0 ml Homopolymer Microcentrifuge Tube	Blue	500	I1420-2701
2.0 ml Homopolymer Microcentrifuge Tube	Green	500	I1420-2702
2.0 ml Homopolymer Microcentrifuge Tube	Orange	500	I1420-2703
2.0 ml Homopolymer Microcentrifuge Tube	Red	500	I1420-2704
2.0 ml Homopolymer Microcentrifuge Tube	Violet	500	I1420-2705
2.0 ml Homopolymer Microcentrifuge Tube	Yellow	500	I1420-2706
2.0 ml Homopolymer Microcentrifuge Tube	Amber	500	I1420-2707
2.0 ml Homopolymer Microcentrifuge Tube	Mixed	500	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.

ORDER INFORMATION			
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

ORDER INFORMATION			
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

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

# Microcentrifuge Tube Accessories

ORDER INFORMATION				
		For Use with	Pack Size	Cat. No.
	<b>Cap Locks:</b> 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
	<b>Tube Openers:</b> For use with all microcentrifuge tubes, 0.5 ml to 2.0 ml. Also aids the safe opening of glass ampoules.	0.5 ml to 2.0 ml Tubes	100	I1400-1008
	<b>Microtube Pestles:</b> 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

























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

# 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

ORDER INFORMATION										
										
<b>Tube Volume:</b>	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
<b>Tube Style:</b>	Ribbed	Plain	Plain	Ribbed	Ribbed	Graduated	Plain	Ribbed	Graduated	Graduated
<b>Tube Base:</b>	Skirted	Skirted	Conical	Skirted	Conical	Conical	Skirted	Skirted	Conical	Skirted
 <b>Natural Tubes</b> 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
 <b>Amber Tubes</b> 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									
									
<b>Colour:</b>	Natural/White	White/Blue	White/Green	White/Orange	White/Red	White/Violet	White/Yellow	White/White	Mixed
 <b>Easy Grip Caps</b> Opaque white <sup>1)</sup> 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

<sup>1)</sup>except E1480-0300 which is clear.

STANDARD & TETHERED CAPS ONLY											
											
<b>Colour:</b>	Natural	Blue	Green	Orange	Red	Violet	Yellow	Amber	Black	White	Mixed
 <b>Standard Caps</b> 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
 <b>Tethered Caps</b> 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

ORDER INFORMATION					
<b>Tube Volume:</b>	0.5 ml	1.5 ml	1.5 ml	2.0 ml	2.0 ml
<b>Tube Style:</b>	Plain	Graduated	Plain	Graduated	Graduated
<b>Tube Base:</b>	Skirted	Conical	Skirted	Conical	Skirted
<b>with Natural Standard Caps (Sterile)</b> 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
<b>with Natural Tethered Caps (Sterile)</b> 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
<b>with Natural/White EasyGrip Caps (Sterile)</b> 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
<b>with White/Colour EasyGrip Caps (Sterile)<sup>1)</sup></b> 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
<sup>1)</sup> To order colour of grip/seal required, replace # as last digit of Cat. No. with: <div>  1 for Blue              2 for Green              4 for Red              6 for Yellow           </div>					

## 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 and 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

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

# Cryogenic Vials

Cryogenic Vials 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 100 µl increments
- ▶ Sterile and certified RNase, DNase, DNA, PCR Inhibitor and Endotoxin free

		ORDER INFORMATION							
									
		Tube Volume	1.0 ml	1.8 ml	1.8 ml	3.6 ml	3.6 ml	4.5 ml	4.5 ml
		Tube Style	Skirted	Conical	Skirted	Conical	Skirted	Conical	Skirted
	External Threaded Tube Self-Sealing Cap, Sterile	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	n/a	E3090-6242 Pack Size: 6 x 50 Height: 91 mm	
	Internal Threaded Tube Silicone Seal in Cap, Sterile	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	



# Centrifuge Tubes



## 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

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>15 ml Centrifuge Tubes</b>		
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
<b>50 ml Centrifuge Tubes</b>		
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

ORDER INFORMATION		
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



- ▶ 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

## 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.

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Polypropylene Culture Tube with Cap (Sterile)	20 x 25-Tube Bags	I 1485-0810
Polystyrene Culture Tube with Cap (Sterile)	20 x 25-Tube Bags	I 1485-2810
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.

ORDER INFORMATION		
Description	Pack Size	Cat. No.
1.2 ml Microtubes in Rack	10	I 1412-7400
1.2 ml Microtubes in Rack (Sterile)	10	I 1412-7410
8-Strip Caps for 1.2 ml Microtubes	120	I 1494-1400
8-Strip Caps for 1.2 ml Microtubes (Sterile)	120	I 1494-1410
<b>NOTE:</b> 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

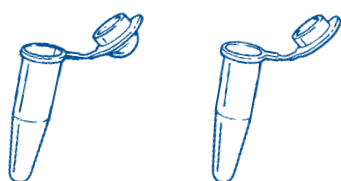


ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>Racks / Individual Tubes</b>		
1.2 ml Reaction Tubes in Rack (96 Individual Tubes)	10	E1750-0400
1.2 ml Reaction Tubes in Rack (96 Individual Tubes) (Sterile)	10	E1750-0410
1.2 ml Individual Reaction Tubes	1000	E1710-0000
<b>Racks / 8-Strip Tubes</b>		
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
<b>Racks / 12-Strip Tubes</b>		
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
<b>Strip Caps</b>		
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
<b>NOTE:</b> 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.		

# 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

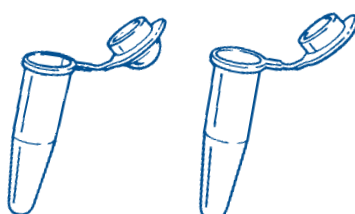


ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
0.2 ml PCR Tube, Domed Cap	Natural	1000	I1402-4300
0.2 ml PCR Tube, Domed Cap	Mixed <sup>1)</sup>	5 x 200	I1402-4308
<b>Flat Caps</b>			
0.2 ml PCR Tube, Flat Cap	Natural	1000	I1402-8100
0.2 ml PCR Tube, Flat Cap	Mixed <sup>1)</sup>	5 x 200	I1402-8108
0.2 ml PCR Tube, Flat Cap (Xtra-Clear)	Natural	1000	I1402-8200
<sup>1)</sup> 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.



ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
0.2 ml PCR Tube, Domed Shielded Cap	Natural	1000	S1602-4300
<b>Flat Caps</b>			
0.2 ml PCR Tube, Flat Shielded Cap	Natural	1000	B1402-5500



ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
0.5 ml PCR Tube, Domed Cap	Natural	1000	I1405-8200
<b>Flat Caps</b>			
0.5 ml PCR Tube, Flat Cap	Natural	1000	I1405-8100
0.5 ml PCR Tube, Flat Cap	Mixed <sup>1)</sup>	5 x 200	I1405-8108
0.5 ml PCR Tube, Flat Pierceable Cap	Natural	1000	B1408-3300
<sup>1)</sup> Mixed packs contain: blue, green, red, violet and yellow.			

get  
**GREEN**  
with  
**STARLAB**

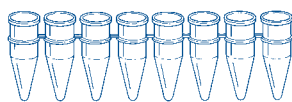
Larger pack sizes reduce  
packing materials and  
transport emissions

 [www.starlab.click/pcrtubes](http://www.starlab.click/pcrtubes)

# PCR Strips

## Strip tubes and strip caps

- ▶ 8- and 12- tube and cap strips, available either separately or together in combo packs
- ▶ Cuttable! Tube strips can easily be cut or snapped into smaller strips
- ▶ Available in natural, or in mixed packs of blue, green, red, violet and yellow
- ▶ Opaque white 8-strip tubes for qPCR
- ▶ 'Xtra-Clear' flat cap strips for qPCR
- ▶ Supplied in resealable bags
- ▶ Certified RNase, DNase, DNA & PCR Inhibitor free
- ▶ Endotoxin-free



Larger pack sizes reduce packing materials and transport emissions

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



### ORDER INFORMATION

Description	Colour	Pack Size	Cat. No
<b>Strip Tubes</b>			
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 <sup>1)</sup>	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
<b>Strip Caps</b>			
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 <sup>1)</sup>	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 <sup>1)</sup>	5 x 25	I 1400-0818
8-Strip PCR Caps, Flat (Xtra-Clear)	Natural	125	I 1400-0900
<b>8-Strip Tube &amp; Cap Combo Packs</b>			
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

<sup>1)</sup>Mixed packs contain: blue, green, red, violet and yellow.

### ORDER INFORMATION

Description	Colour	Pack Size	Cat. No
<b>Strip Tubes</b>			
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 <sup>1)</sup>	5 x 16	I 1402-1208
<b>Strip Caps</b>			
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 <sup>1)</sup>	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

<sup>1)</sup>Mixed packs contain: blue, green, red, violet and yellow.

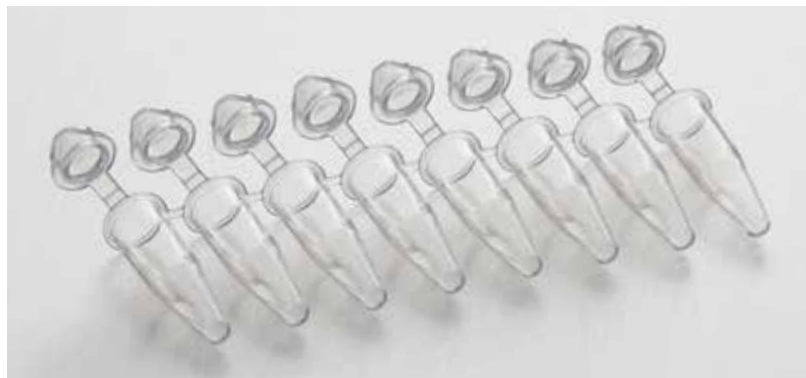
### Tube Strips with attached caps

- ▶ Polypropylene PCR strips
- ▶ Attached caps eliminates the possibility of cross-contamination through accidental tube–cap mix up
- ▶ Available in natural, or in mixed packs of blue, green, red, violet and yellow
- ▶ 'X-Clear' flat cap option for qPCR
- ▶ Tubes with individually attached caps can easily be split into smaller sections by snapping the strips apart
- ▶ Supplied in resealable bags
- ▶ Certified RNase, DNase, DNA & 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.



ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
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 <sup>1)</sup>	5 x 24	I1402-2908
<b>Xtra-Clear Flat Caps, Low-Profile</b>			
0.1 ml 8-Strip PCR Tubes, Individually Attached Flat Caps (Xtra-Clear), Low-Profile	Natural	120	A1402-3800
<b>Xtra-Clear Flat Caps</b>			
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
<sup>1)</sup> Mixed pack contains: blue, green, red, violet and yellow.			

ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
0.2 ml 8-Strip PCR Tube, Individually Attached Domed Shielded Caps	Natural	120	S1602-2900

ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Domed Caps</b>			
0.2 ml 8-Strip PCR Tubes, Attached Domed Cap Strip	Natural	125	I1402-2800
<b>Xtra-Clear Flat Caps</b>			
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

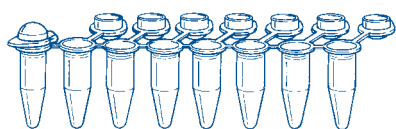
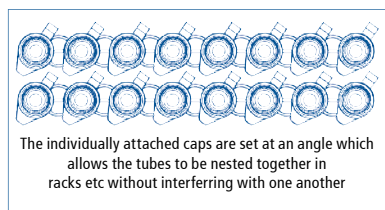
## Non-Flex Strips – stronger strips for easier handling!

Non-flex 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.



FREE SAMPLE  
TRY  
before you  
BUY  
available on request

- ▶ 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

ORDER INFORMATION			
Description	Colour	Pack Size	Cat. No
<b>Xtra-Clear Flat Caps, Low-Profile</b>			
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
<b>Xtra-Clear Flat Caps</b>			
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 <sup>1)</sup> / 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
<sup>1)</sup> Mixed pack contains: blue, green, red, violet and yellow.			

 [www.starlab.click/pcrstrips](http://www.starlab.click/pcrstrips)

get  
**GREEN**  
with  
**STARLAB**

Larger pack sizes reduce packing materials and transport emissions





### Rotor-Gene® Style PCR Strips

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

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

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

 [www.starlab.click/pcrstrips](http://www.starlab.click/pcrstrips)

## 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.

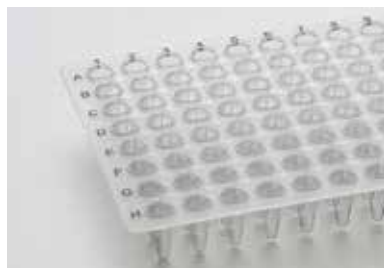
### Product features

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

ORDER INFORMATION		
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

 [www.starlab.click/pcrdiscs](http://www.starlab.click/pcrdiscs)

# Non-Skirted PCR 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



### Plate Capacities:

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



 [www.starlab.click/pcrplates](http://www.starlab.click/pcrplates)

## ORDER INFORMATION

Description	Cut Corner	Matrix <sup>1)</sup>	Colour	Pack Size	Cat. No.
<b>Low-Profile</b>					
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
<b>Strip Caps for 24- and 48-Well-Plates</b>					
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
<b>Sealing Mat</b>					
Silicone Sealing Mat (Autoclavable) <sup>2)</sup>			Natural	5	E1403-0000

<sup>1)</sup>Matrix: P = Printed

<sup>2)</sup>NOTE: Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 62) or the plate seals suitable for PCR/qPCR on page 73 – 74.

## 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.

## ORDER INFORMATION

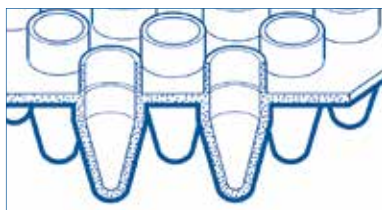
Description	Cut Corner	Matrix <sup>1)</sup>	Colour	Pack Size	Cat. No.
<b>Standard Height</b>					
96-Well PCR Plate, Non-Skirted (Cuttable)	A12	P	Natural	10	E1403-0100
<b>Sealing Mat</b>					
Silicone Sealing Mat (Autoclavable) <sup>2)</sup>			Natural	5	E1403-0000

<sup>1)</sup>Matrix: P = Printed

<sup>2)</sup>NOTE: Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 62) or the plate seals suitable for PCR/qPCR on page 73 – 74.



To download our PCR Plate-Cycler  
Compatibility Chart visit  
[www.starlab.click/pcr-compatibility](http://www.starlab.click/pcr-compatibility)



#### Plate Capacities:

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

ORDER INFORMATION					
Description	Cut Corner	Matrix <sup>1)</sup>	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) <sup>2)</sup>			Natural	5	E1403-0000
<sup>1)</sup> Matrix: P = Printed <sup>2)</sup> Please choose any of our qPCR Sealing Foils for the use of the plate inside qPCR instruments (see table on page 73). <b>NOTE:</b> Sealing mat E1403-0000 is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (page 62), or the plate seals suitable for PCR (page 73 – 74). For an overview of all PCR Plate Sealing Options, see page 73 – 74.					

ORDER INFORMATION					
Description	Cut Corner	Matrix <sup>1)</sup>	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) <sup>2)</sup>			Blue	5	B1494-1005
<sup>1)</sup> Matrix: M = Moulded <sup>2)</sup> <b>NOTE:</b> Sealing mat is not suitable for qPCR. Above plates can also be sealed with PCR strip caps (p. 62) or the plate seals suitable for PCR/qPCR on page 73 – 74.					

# Semi-Skirted PCR Plates



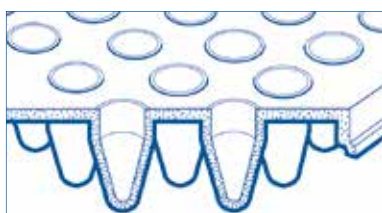
Larger pack sizes reduce packing materials and transport emissions



I1402-9700



I1402-9800

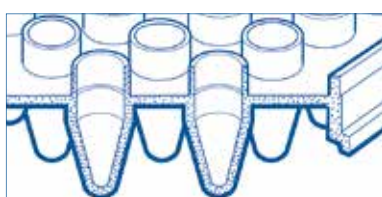
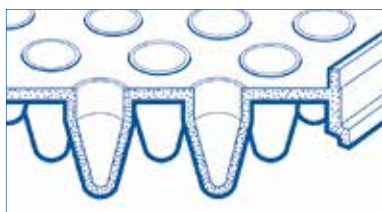


## Plate Capacities:

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

FREE SAMPLE  
TRY  
before you  
BUY  
available on request

## ORDER INFORMATION

Description	Cut Corner	Matrix <sup>1)</sup>	Colour	Pack Size	Cat. No.
<b>Low-Profile</b>					
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
<b>Standard Height</b>					
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
<b>Sealing Mat</b>					
Silicone Sealing Mat (Autoclavable) <sup>2)</sup>			Natural	5	E1403-0000

## ORDER INFORMATION

Description	Cut Corner	Matrix <sup>1)</sup>	Colour	Pack Size	Cat. No.
<b>TAQMan®-Style Plate</b>					
96-Well PCR Plate, Semi-Skirted, Raised Rim	A12	P	Natural	10	E1403-8200
<b>Plate for FAST® Systems</b>					
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
<b>Sealing Mat</b>					
Silicone Sealing Mat (Autoclavable) <sup>2)</sup>		P	Natural	5	E1403-0000

## ORDER INFORMATION

Description	Cut Corner	Matrix <sup>1)</sup>	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
<b>Sealing Mat</b>					
Cap Mat for 96-Well PCR Plates (Autoclavable) <sup>2)</sup>			Blue	5	B1494-1005

<sup>1)</sup>Matrix: P = Printed, M = Moulded.

<sup>2)</sup>Sealing mats E1403-0000 and B1494-1005 are not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 73–74. All plates on this page can also be sealed with the PCR Strip Caps on p. 62.

# Skirted PCR Plates



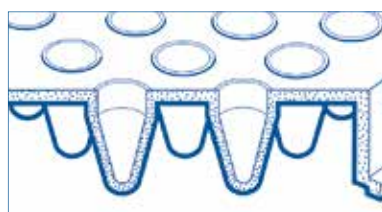
Larger pack sizes reduce packing materials and transport emissions



E1403-5200

## 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



### Plate Capacity:

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



E1403-5200

ORDER INFORMATION					
Description	Cut Corner	Matrix <sup>1)</sup>	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) <sup>2)</sup>			Natural	5	E1403-0000

<sup>1)</sup>Matrix: P=Printed

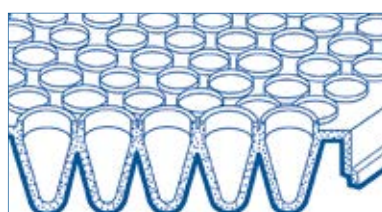
<sup>2)</sup>Sealing mat E1403-0000 is not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 73–74. These plates can also be sealed with the PCR Strip Caps on page 62.

## 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



E1042-3840



ORDER INFORMATION					
Description	Cut Corner	Matrix <sup>1)</sup>	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 <sup>2)</sup>			Natural	10	E1042-2350

Volumes stated are approximate only. <sup>1)</sup>Matrix: P=Printed, M=Moulded.

<sup>2)</sup>Sealing mat E1042-2350 is not suitable for qPCR. Plates seals suitable for PCR/qPCR can be found on page 73–74.





## What are my options?

### 24- and 48-Well Plates

- ▶ 8-Strip Caps
- ▶ PCR Sealing Film Strips

### 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 plate. (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'

# PCR Plate-Sealing Overview

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 62.

## 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 66–69.

## 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 73–74.**



## 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 73 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:** Please visit [www.starlab.click/cycler-compatibility](http://www.starlab.click/cycler-compatibility) to see which plate is suitable for your Real-Time Cycler.

**Strip Caps:** Use only 'X-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 (page 73).

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



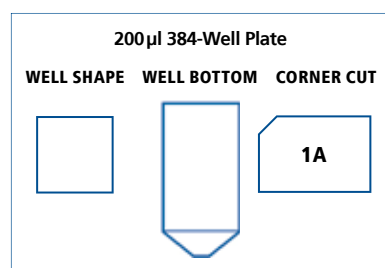
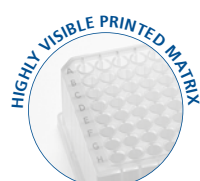
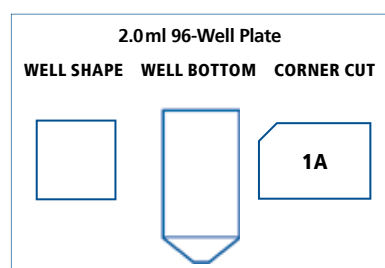
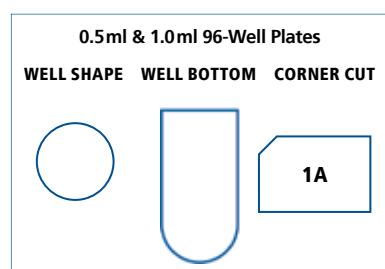
# PlateOne® Deepwell Plates



## Features

- ▶ Virgin polypropylene
- ▶ Highly visible, printed matrix
- ▶ SBS footprint
- ▶ Barcoded plates available on request
- ▶ Rated up to 5000 x g
- ▶ Temperature use: -80°C to 121°C
- ▶ Autoclavable
- ▶ Supplied in resealable bags
- ▶ Certified RNase, DNase, DNA & Pyrogen free

PlateOne



ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>0.5 ml, Round Wells, Round Bottom</b>		
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
<b>1.0 ml, Round Wells, Round Bottom</b>		
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
<b>2.0 ml, Square Wells, V-Shaped Bottom</b>		
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 73–74.		

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>200 µl, Square Wells, V-Shaped Bottom</b>		
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 73–74.		

# PlateOne® Microplates



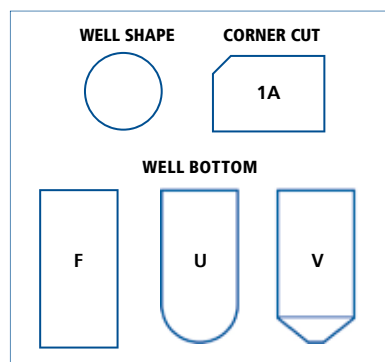
Well-bottom shape indicator code on every plate for easy identification

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

PlateOne®






Larger pack sizes reduce packing materials and transport emissions

96-WELL MICROPLATES		
Description	Pack Size	Cat. No.
<b>Flat Bottom (F) Plates, max. Working Volume 370 µl</b>		
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
<b>Round Bottom (U) Plates, max. Working Volume 320 µl</b>		
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
<b>Conical Bottom (V) Plates, max. Working Volume 320 µl</b>		
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
<b>Sealing Mat</b>		
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 73–74.		

 [www.starlab.click/plateone](http://www.starlab.click/plateone)

# 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) <sup>1</sup>	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)
<b>Pack Size:</b>	100	100	100	100	100	100	2 x 25	100	100	100	100
<b>Cat. No:</b>	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.

<sup>1</sup> 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 is 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**

# Self-Adhesive Plate Seals

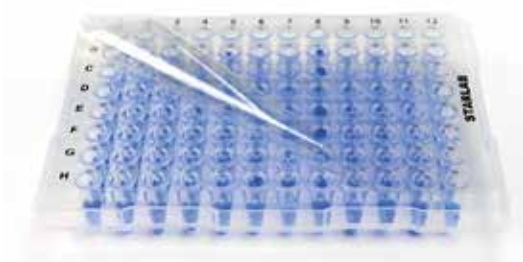


**New!**

## Polypropylene PCR Sealing Film Strips, Clear

- ▶ Supplied on convenient, perforated sheets of four strips
- ▶ Removable positioning tabs on either end provide easy application and removal
- ▶ Universal fit and specially formulated adhesive provides an excellent seal for all plate types
- ▶ Temperature range: -40°C to +120°C
- ▶ Certified RNase, DNase and nucleic acid free

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Polypropylene PCR Sealing Film Strips, Clear	200 Strips (50 Sheets)	E2796-2850

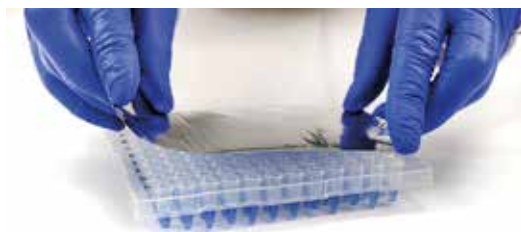


**New!**

## Polyester PCR Sealing Film, Clear

- ▶ This PCR sealing film offers high performance for robotic applications and extreme conditions
- ▶ Excellent seal minimizes evaporation and well-to-well cross contamination
- ▶ Fit-to-plate dimensions and chamfered corners result in no plate overhang for robotic applications
- ▶ Temperature range: - 40°C to + 120°C
- ▶ Compatible with thermal cyclers

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Polyester PCR Sealing Film, Clear	100 Sheets	E2796-0100



**New!**

## Aluminium PCR Sealing Foil, Silver

- ▶ Fit-to-plate dimensions and chamfered corners result in no plate overhang for robotic applications
- ▶ Clean removal from plate leaves no adhesive residue; ideal for cold storage
- ▶ Pierceable with pipette tips and robotic probes for direct sample retrieval
- ▶ Excellent chemical resistance (DMSO)
- ▶ Temperature range: -80°C to +120°C

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Aluminium PCR Sealing Foil, Silver	100 Sheets	E2796-1100

# 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	I 3080-5075
Parafilm® Sealing Film, 100 mm Wide x 38 m Long	1 Roll	I 3080-1038
Parafilm® Sealing Film, 100 mm Wide x 75 m Long	1 Roll	I 3080-1075



# Filtration Funnels



## Versatile!

STARLAB's polypropylene (PP) bottle-top filtration funnels for solvent filtration are an excellent way to purify solvents for all analytical applications. The one-piece PP construction ensures the funnels can withstand aggressive solvents. Made from FDA-grade materials, the PP filtration funnels are suited for the most demanding applications (such as food and drug industries).

Available with three different types of membrane (PES, Nylon, and PTFE), two different pore sizes (0.2 µm and 0.45 µm) and two funnel holding volumes (500 ml and 1000 ml).

## Product features

- ▶ Filter diameter: 90 mm
- ▶ FDA-grade filter
- ▶ Compatible with CytoOne Filtration Pedestal and Cradle Ring
- ▶ Compatible with most laboratory GL45 bottles

ORDER INFORMATION			
Description	Color	Pack Size	Cat. No.
<b>PES Membrane</b>			
Filtration Funnel PP, 0.2 µm PES membrane, 500 ml	Clear	12	E4111-5226
Filtration Funnel PP, 0.2 µm PES membrane, 1000 ml	Clear	12	E4111-6226
<b>Nylon Membrane</b>			
Filtration Funnel PP, 0.2 µm Nylon membrane, 500 ml	Clear	12	E4111-5222
Filtration Funnel PP, 0.22 µm, Nylon membrane, 1000 ml	Clear	12	E4111-6222
Filtration Funnel PP, 0.45 µm Nylon membrane, 500 ml	Clear	12	E4111-5452
Filtration Funnel PP, 0.45 µm Nylon membrane, 1000 ml	Clear	12	E4111-6452
<b>PTFE Membrane</b>			
Filtration Funnel PP, 0.45 µm PTFE membrane, 500 ml	Clear	12	E4111-5454
Filtration Funnel PP, 0.45 µm PTFE membrane, 1000 ml	Clear	12	E4111-6454

# 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)

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>ChannelMate™ 25 ml System</b>		
ChannelMate™ Reservoir System, 25 ml (Sterile)	200 <sup>1)</sup>	E1306-2510
ChannelMate™ Insert, 25 ml (Sterile)	50	E1346-2510
ChannelMate™ Base, 25 ml	10	E1306-2590
<b>ChannelMate™ 100 ml System</b>		
ChannelMate™ Reservoir System, 100 ml (Sterile)	200 <sup>1)</sup>	E1306-1010
ChannelMate™ Insert, 100 ml (Sterile)	50	E1346-1010
ChannelMate™ Base, 100 ml	10	E1306-1090
<sup>1)</sup> 1 pack contains 1 base plus 200 inserts		



## 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

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





### 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

#### ORDER INFORMATION

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

#### ORDER INFORMATION

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

#### ORDER INFORMATION

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

# 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

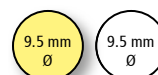
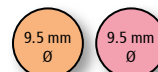
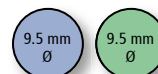
### ORDER INFORMATION

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
<b>StarTags Cryo</b>				
StarTags Cryo (38 x 15 mm)	White	Roll	1000	E9189-3009
<b>NOTE:</b> 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.				

All labels shown actual size

**SPOTS** for the tops of tube caps

for 1.5/2.0 ml tubes

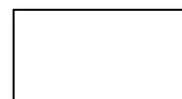


**LARGE** for 1.5 ml/2.0 ml tubes



32.5 x 12.5 mm

**MEDIUM** for 0.5 ml/0.65 ml tubes



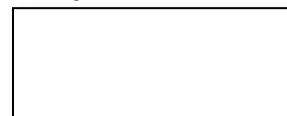
24 x 12.5 mm

**SMALL** for 0.2 ml tubes



20 x 6 mm

**StarTags CRYO** for use down to -196 °C



38 x 15 mm

## StarTags dispenser

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



### ORDER INFORMATION

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

### ORDER INFORMATION

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



1. 12.7 m Tape – The internal aperture of the smaller rolls fit in the dispenser without the need for a Core Insert
2. 55 m Tape – The large rolls must have a Core Insert pushed into the aperture for use in the dispenser
3. Core Insert

ORDER INFORMATION	
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.	

## 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)



		ORDER INFORMATION								8-PACK
TAPE LENGTH	TAPE WIDTH	Blue	Green	Orange	Red	Violet	Yellow	Pink	White	Mixed <sup>2)</sup>
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 <sup>1)</sup>	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

<sup>1)</sup>55 m long tape requires a core insert for use in the STARLAB dispenser.

<sup>2)</sup>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.



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

## 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 & 40 pt) 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



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



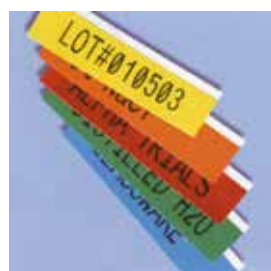
ORDER INFORMATION	
Description	Cat. No.
BMP™ 21-LAB Label Printer	N3000-2000
AC Adaptor (optional)	N3000-2002
The printer is supplied with a 19.1 mm B-7425 Polypropylene label cartridge (N7519-7425) ready installed. BMP™ 21-LAB is designed for portability and runs on 6 x AA batteries (not included). Mains electricity can also be used with the optional AC Adaptor available separately.	

# 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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	White	19.1 mm	N7519-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	19.1 mm	N7519-4889	✓		✓				✓	✓	✓
B-499 Nylon <sup>1</sup>	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

<sup>1</sup> 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>B-461 Polyester</b>	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>B-499 Nylon</b>	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>B-488 Polyester</b>	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>B-7425 Polypropylene</b>	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>B-595 Vinyl</b>	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

ORDER INFORMATION				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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	White	19.1 mm	N7519-4619	✓	✓	✓	✓	✓	✓		✓	✓
B-488 Polyester	White	19.1 mm	N7519-4889	✓		✓				✓	✓	✓
B-7425 Polypropylene	White	19.1 mm	N7519-7425	✓	✓	✓	✓		✓	✓	✓	✓

<sup>1</sup> 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

ORDER INFORMATION								
Label Style	Label Material	Label Type	Colour	Labels per Cartridge	Label Dimensions (mm)			Cat. No.
					A	B	C	
1	B-461 Polyester <sup>1</sup>	Long Tail	White	500	4.75	38.10	17.78	N0108-4619
1	B-461 Polyester <sup>1</sup>	Long Tail	White	225	12.70	44.45	19.05	N0072-4619
1	B-461 Polyester <sup>1</sup>	Long Tail	White	175	12.70	55.88	19.05	N0074-4619
1	B-461 Polyester <sup>1</sup>	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 <sup>1</sup>	Long/Short Tail*	White	100	38.10	95.25	31.75	N0119-4619
4	B-461 Polyester <sup>1</sup>	Free Standing	White	200	48.26	6.35		N0081-4889
5	B-461 Polyester <sup>1</sup>	Free Standing	White	400	22.86	22.86		N0097-4889

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

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

FOR USE WITH								
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	
✓								
	✓							
		✓	✓					
		✓	✓					
	✓	✓	✓					
		✓	✓					
		✓						
		✓						
				✓	✓			
						✓		
							✓	

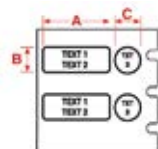
 [www.starlab.click/labelling](http://www.starlab.click/labelling)

## Label Styles for LabXpert™

LABEL STYLE 1



LABEL STYLE 2



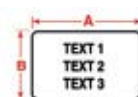
LABEL STYLE 3



LABEL STYLE 4



LABEL STYLE 5







## Efficient Filtration!

Low hold-up limits the waste  
of expensive media

### CELL CULTURE

CytoOne® Overview ..... 84

### CELL CULTURE DISHES

CytoOne® Dishes..... 85

### CELL CULTURE PLATES

CytoOne® Multiwell Plates ..... 86–87

### CELL CULTURE FLASKS

CytoOne® Flasks  
with Two-Position Plug Seal Caps ..... 88

CytoOne® Flasks  
with Vented Filter Caps ..... 89

CELL SCRAPERS ..... 90

### CENTRIFUGE TUBES

15 ml and 50 ml Centrifuge Tubes ..... 91

CELL STRAINERS ..... 92

SYRINGE FILTERS ..... 93

### CELL CULTURE FILTRATION

CytoOne® Bottle Top Filtration Units..... 94–95

CytoOne® Centrifuge Tube  
Filtration System..... 96–97

CytoOne® Media Bottles (Sterile) ..... 98

# 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 to 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®

## CytoOne® testing and quality assurance

CytoOne® flasks, dishes, and plates are gamma sterilised and certified free of detectable RNase, DNase, DNA and Pyrogen. 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®.

 [www.starlab.click/cytoone](http://www.starlab.click/cytoone)

## STARLAB Quality

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.



# 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 hand strain.

## Product features

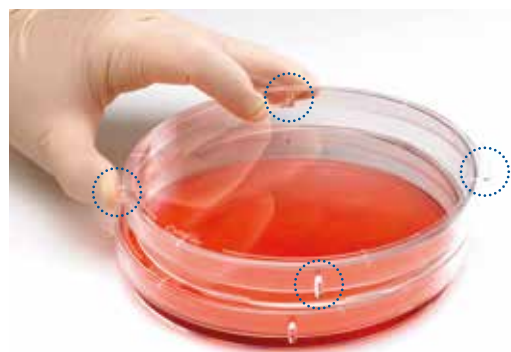
- ▶ Sturdy, flat bases resist bowing and warping
- ▶ Stacking rings with vented design for thermal equalisation
- ▶ Vented lids improve gas exchange
- ▶ All CytoOne dishes have untreated lids to minimise condensation
- ▶ Easy to open sleeves in convenient small pack sizes
- ▶ Gamma sterilised (SAL  $10^{-5}$ ) and certified RNase, DNase, DNA and pyrogen free



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

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

 [www.starlab.click/dishes](http://www.starlab.click/dishes)

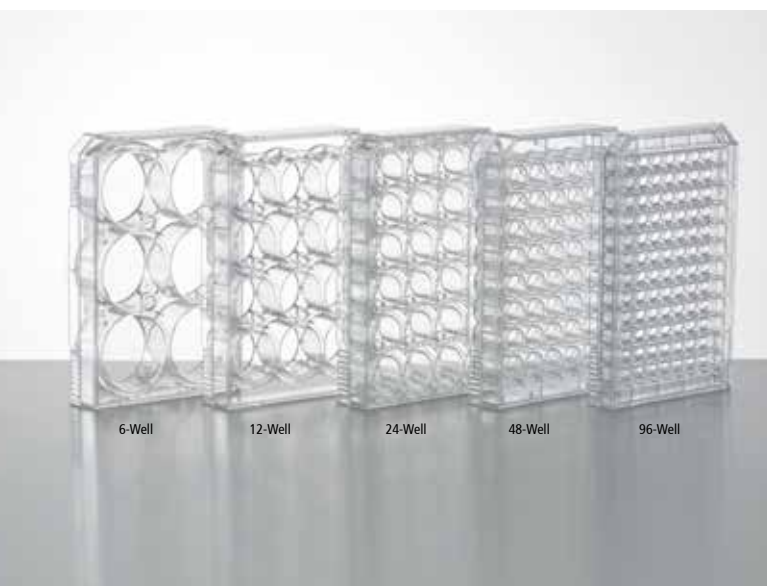


The lids of the 150 mm dishes have four ergonomically placed grip tags (circled above) for secure handling with less strain



Bevelled base on the 35 mm and 60 mm dishes makes it easier to pick up these small dishes without accidentally losing the lower shell

# 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



One-way fit lids with condensation rings prevent cross contamination

## 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 prevents crosscontamination and provides uniform temperature transfer across all wells
- Vented skirt reduces condensation and surface tension between stacked plates
- Optical clarity provides distortion-free microscopy
- Moulded alpha-numeric matrix
- Gamma sterilised (SAL 10<sup>-5</sup>) and certified RNase, DNase, DNA and Pyrogen free

ORDER INFORMATION		
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

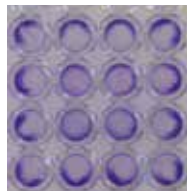
TECHNICAL SPECIFICATIONS			
Number of wells	Growth area	Working volume	Well diameter
6 wells	9.4 cm <sup>2</sup>	2.0 ml	3.46 cm
12 wells	3.8 cm <sup>2</sup>	1.5 ml	2.21 cm
24 wells	1.9 cm <sup>2</sup>	1.0 ml	1.55 cm
48 wells	0.76 cm <sup>2</sup>	0.5 ml	0.98 cm
96 wells	0.32 cm <sup>2</sup>	0.2 ml	0.64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

 [www.starlab.click/multiwellplates](http://www.starlab.click/multiwellplates)

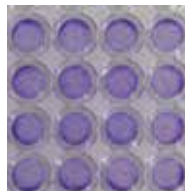
## Minimising the 'edge effect' with CytoOne®

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: [www.starlab.click/edgeeffect](http://www.starlab.click/edgeeffect)

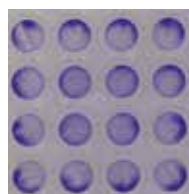


Plate A

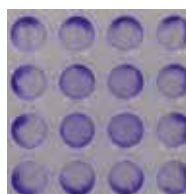


Plate B

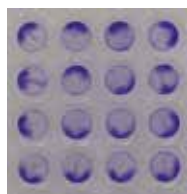


Plate C

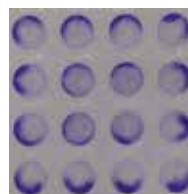


Plate D

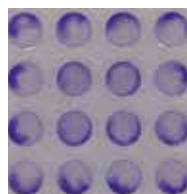


Plate E

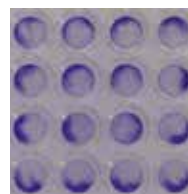


Plate F

NIH3T3 cells stained with Crystal-Violet after 24 hours at 37 °C, 5 % Co<sub>2</sub>.  
Initial seeding 0.01 x 10<sup>6</sup> cells per well.

### A perfect match – ErgoOne® Pipettes

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.

#### More details:

see pages 34–37 or visit [www.starlab.click/manualpipettes](http://www.starlab.click/manualpipettes)





# 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
- ▶ Gamma sterilised (SAL  $10^{-5}$ ) and certified RNase, DNase, DNA and Pyrogen free

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>TC Treated</b>		
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
<b>Non-Treated</b>		
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



### CytoOne® two-position plug seal cap

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

 [www.starlab.click/flasks](http://www.starlab.click/flasks)



T-75 flasks with two-position plug seal caps



Non-treated flasks can be identified by their white caps



# CytoOne® Flasks with Vented Filter Caps

## Leak-free assurance

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

## 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
- ▶ Gamma sterilised (SAL 10<sup>-5</sup>) and certified RNase, DNase, DNA and Pyrogen free



### CytoOne® vented filter cap

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

ORDER INFORMATION		
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
Non-Treated		
T-25 CytoOne® Non-Treated Flasks, Vented	30 × 10	CC7672-4825
T-75 CytoOne® Non-Treated Flasks, Vented	20 × 5	CC7672-4875
T-150 CytoOne® Non-Treated Flasks, Vented	8 × 5	CC7672-4815
T-225 CytoOne® Non-Treated Flasks, Vented	5 × 5	CC7672-4822

New!

New!

New!

New!

Cell Culture Flasks



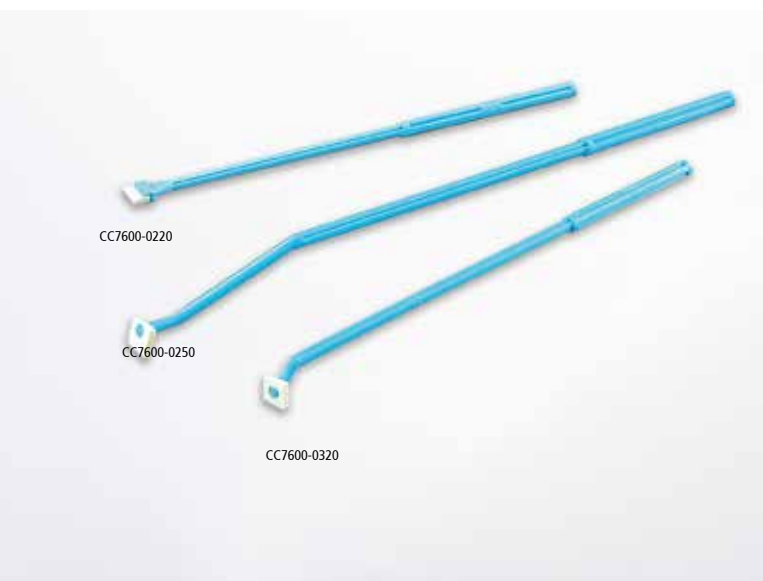
All flasks supplied in easy-open, resealable zip top bags to protect unused flasks

TECHNICAL SPECIFICATIONS (All Cap Types)					
Flask Type	Growth area	Neck	Working volume	Max. volume without neck	Max. volume with neck
T-25	25 cm <sup>2</sup>	canted	5 ml	70 ml	75 ml
T-75	75 cm <sup>2</sup>	canted	20 ml	279 ml	290 ml
T-150	150 cm <sup>2</sup>	canted	30 ml	591 ml	603 ml
T-225	225 cm <sup>2</sup>	angled	60 ml	1,006 ml	1,024 ml

[www.starlab.click/flasks](http://www.starlab.click/flasks)



# Cell Scrapers



**CytoOne**

## Rich harvest!

CytoOne® scrapers comprise a gentle silicone blade and an ABS polymer handle for easy handling inside flasks. 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

## 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
- ▶ Gamma sterilised (SAL 10<sup>-5</sup>)

### ORDER INFORMATION

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

### TECHNICAL 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

 [www.starlab.click/cellscrapers](http://www.starlab.click/cellscrapers)

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

# 15 ml and 50 ml Centrifuge Tubes



STARLAB's new centrifuge tubes are designed for the centrifugation of cells, but can be used for standard centrifugation, preparation and storage applications. USP Class VI polymers and certified non-toxicity ensure the viability and integrity of cells. The sterility of assurance level (SAL) of  $10^{-6}$  fulfills the highest demands on sterility, meeting EN 556-1 standard (Sterilisation of Medical Devices). Racked tubes are delivered in recyclable cardboard racks.

**Maximum centrifugation rates:** Conical Tubes 15 & 50 ml: 12,000 x g and Skirted Tube 50 ml: 6,000 x g

## Product features

- ▶ Clear, sterile polypropylene tubes with green HDPE screw caps
- ▶ White writing surface and clearly printed graduations
- ▶ Longer length screw caps with sealing ring prevent any leakage
- ▶ Perfect for centrifugation of cells: USP Class VI, non-cytotoxic and sterile (SAL  $10^{-6}$ ) material
- ▶ Certified RNase, DNase, DNA and Pyrogen free



Racked tubes are supplied in recyclable cardboard trays



ORDER INFORMATION		
Description	Pack Size	Cat. No.
15 ml Centrifuge Tube, Conical, Loose (Sterile)	10 × 50	E1415-0100
15 ml Centrifuge Tube, Conical, Racked (Sterile)	20 × 25	E1415-0700



ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>Conical Tubes</b>		
50 ml Centrifuge Tube, Conical, Loose (Sterile)	10 × 50	E1450-0100
50 ml Centrifuge Tube, Conical, Racked (Sterile)	20 × 25	E1450-0700
<b>Skirted Tubes</b>		
50 ml Centrifuge Tubes, Skirted, Loose (Sterile)	20 × 25	E1450-0400

[www.starlab.click/centrifuge tubes](http://www.starlab.click/centrifuge tubes)

# Cell Strainers (Sterile)



STARLAB Cell Strainers are intended as a fast, easy, and simple alternative to traditional filtration when dissociating stem cells and other tissue-derived primary cells. They yield consistently uniform, single-cell suspensions that are ideal for preparation of samples for flow cytometry, Fluorescence-Activated Cell Sorting (FACS), and other applications related to cell separation. Available in 40  $\mu\text{m}$ , 70  $\mu\text{m}$ , and 100  $\mu\text{m}$  color-coded mesh variants. Cell strainers are made from USP Class VI materials.

## Product features

- ▶ Uniform nylon mesh size of 40  $\mu\text{m}$ , 70  $\mu\text{m}$ , and 100  $\mu\text{m}$  (colour-coded)
- ▶ Extended lip on the strainer enables aseptic handling with forceps
- ▶ Designed to fit into a 50 ml conical centrifuge tube
- ▶ RNase, DNase and Pyrogen free
- ▶ Gamma sterilised

ORDER INFORMATION		
Description	Pack Size	Cat. No.
40 $\mu\text{m}$ Cell Strainer, Blue (Sterile)	50 $\times$ 1	CC8111-0042
70 $\mu\text{m}$ Cell Strainer, Yellow (Sterile)	50 $\times$ 1	CC8111-0072
100 $\mu\text{m}$ Cell Strainer, White (Sterile)	50 $\times$ 1	CC8111-0102

[www.starlab.click/cellstrainer](http://www.starlab.click/cellstrainer)



**Cell Strainers with three different mesh sizes**  
Designed to fit perfectly into 50 ml centrifuge tubes

**A perfect match –**  
Serological Pipettes



**More details:**  
see page 43 or visit [www.starlab.click/serologicals](http://www.starlab.click/serologicals)

# Syringe Filters (Sterile)

## Nearly half the hold up volume of some other syringes 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 33 mm diameter filters are suitable for volumes 10–200 ml. Use for cell culture media and additives, biological solutions and buffers.

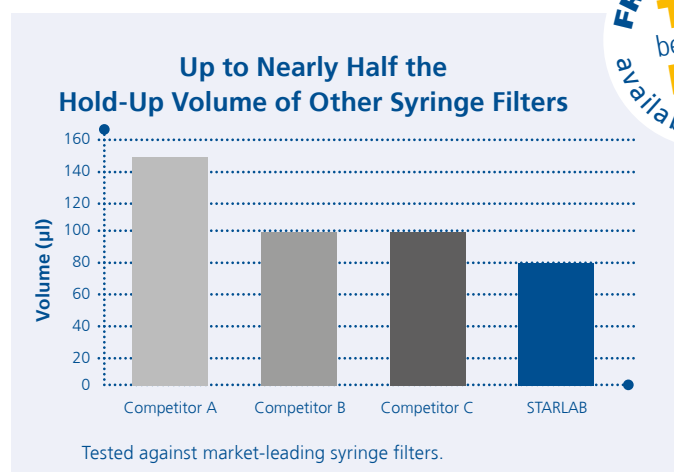


## Product features

- ▶ 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
- ▶ Surfactant-free membrane for cleanliness in downstream applications

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>PES Membrane</b>		
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
<b>PVDF Membrane</b>		
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
<b>Cellulose Acetate Membrane</b>		
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

[www.starlab.click/syringefilters](http://www.starlab.click/syringefilters)



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



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.

# CytoOne® Bottle Top Filtration Units



## Easy going!

The patented, innovative CytoOne® Bottle Top Filtration Units feature a High Flow Velocity PES (Polyethersulfone) 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.

## Product features

- ▶ Suitable for the sterile filtration of tissue culture and microbial media, buffers, reagents and other laboratory solutions
- ▶ Available as a complete system or funnel-only
- ▶ Patented SECUREgrasp™ cap provides a convenient gripping surface plus a frosted area for labeling
- ▶ Ergonomic bottle shape with moulded finger grips
- ▶ Sterile (SAL 10<sup>-6</sup>) and certified non-cytotoxic and pyrogen free

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 the 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





ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>0.2 µm PES Membrane</b>		
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
<b>0.45 µm PES Membrane</b>		
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.45 µm, 250 ml	12	CC6034-1141
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.45 µm, 500 ml	12	CC6034-1142
CytoOne® Bottle Top Filtration Unit, Full Assembly, 0.45 µm, 1000 ml	12	CC6034-1143

*New!*

*New!*

*New!*

ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>0.2 µm PES Membrane</b>		
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
<b>0.45 µm PES Membrane</b>		
CytoOne® Bottle Top Filtration Unit, Funnel Only, 0.45 µm, 500 ml	12	CC6064-1162
CytoOne® Bottle Top Filtration Unit, Funnel Only, 0.45 µm, 1000 ml	12	CC6064-1163

*New!*

*New!*

 [www.starlab.click/filtration](http://www.starlab.click/filtration)



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



Cradle Ring for use with all filtration units for hands-free filtration



Quick-Connect Vacuum Filtration Pedestal shown with 500 ml Bottle Top Filtration Unit. Use for easy, hands-free filtration.

# CytoOne® Centrifuge Tube Filtration System



## Freedom!

STARLAB has developed the world's first hands-free centrifuge tube filtration system. Each filtration unit includes a sterile centrifuge tube and cap, 50 ml funnel with PES membrane, funnel adapter (for the 15 ml tube assembly), vacuum hose adapter, and dual centrifuge tube stand.

The CytoOne® Centrifuge Tube Filtration System is used for the sterilization of tissue culture and microbiological media, FBS, buffers, reagents, and other laboratory solutions. This system avoids potential contamination by eliminating any unnecessary fluid transfer to the centrifuge tube poststerilization, and also reduces the risk of spills.

This hands-free filtration system works in conjunction with the Quick-Connect™ Pedestal or Cradle Ring which provides on/off vacuum flow control. Quick-Connect™ Pedestal and Cradle Ring provide a permanent vacuum hose connection. A time-consuming change of the vacuum hose connection from one unit to the next is not necessary. Both CytoOne® Centrifuge Tube Filtration Units are offered as ready to use full assemblies including centrifuge tubes.

## Product features

- ▶ Available in 15 ml and 50 ml centrifuge tube sizes
- ▶ 0.2 µm or 0.45 µm membrane
- ▶ Permanent vacuum hose connection to minimize set-up time
- ▶ Certified non-cytotoxic and pyrogen-free
- ▶ Sterile (SAL 10<sup>-6</sup>)

1. 50 ml filtration funnel with forward-facing and raised graduation marks for easy reading
2. 0.2 µm asymmetric membrane filter pore size
3. 15 ml CytoOne® Centrifuge Tube Filtration Unit
4. 50 ml CytoOne® Centrifuge Tube Filtration Unit
5. Quick connection to vacuum system
6. Vacuum hose adapter
7. Quick-Connect™ Pedestal base for hands-free filtration
8. On/off vacuum flow control



ORDER INFORMATION		
Description	Pack Size	Cat. No.
<b>0.2 µm PES Membrane</b>		
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
<b>0.45 µm PES Membrane</b>		
CytoOne® Centrifuge Tube Filtration System, Full Assembly, 0.45 µm, 15 ml	24	CC6034-1412
CytoOne® Centrifuge Tube Filtration System, Full Assembly, 0.45 µm, 50 ml	24	CC6034-1403

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

 [www.starlab.click/filtration](http://www.starlab.click/filtration)



15 ml

50 ml

*New!*

*New!*

## 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 the Centrifuge Tube Filtration Systems can be used with either 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. The Cradle Ring is made from Stainless Steel.

### Product features

- ▶ Allows hands-free filtration
- ▶ Provides on/off vacuum flow control
- ▶ Permanent hose connection to minimize set-up time
- ▶ Works in conjunction with CytoOne® Filtration system in 15 ml, 50 ml, 250 ml, 500 ml, and 1000 ml
- ▶ Sterile (SAL 10<sup>-6</sup>)

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

 [www.starlab.click/cytoone](http://www.starlab.click/cytoone)



CC6000-1116



CC6000-1122

# CytoOne® Media Bottles (Sterile)



## Safe storage!

CytoOne® Media Bottles are ideal for the storage of sterile solutions such as tissue culture media, serum, and buffers. All media bottles are sterile and manufactured from USP Class VI polystyrene in an ISO 13485 clean room, FDA regulated facility. CytoOne® Media Bottles are fully compatible with the CytoOne® Bottle Top Filtration system. Available in 250 ml, 500 ml and 1000 ml sizes with additional head-space to allow 15% dilutions.

## Product features

- ▶ Suitable for sterile solutions such as tissue culture media, serum and buffers
- ▶ Ergonomic bottle shape, stackable, with molded finger grips
- ▶ Patented SECUREgrasp™ cap provides a convenient gripping surface plus a frosted area for labeling
- ▶ Made with USP Class VI materials in a class 100,000 cleanroom
- ▶ Sterile

ORDER INFORMATION		
Description	Pack Size	Cat. No.
CytoOne® Media Bottles 250 ml (Sterile)	24	CC6027-1171
CytoOne® Media Bottles 500 ml (Sterile)	24	CC6027-1172
CytoOne® Media Bottle 1000 ml (Sterile)	24	CC6027-1173

 [www.starlab.click/filtration](http://www.starlab.click/filtration)



**Get organised, save space!**

Sample storage solutions for  
optimal freezer efficiency

## **STORAGE BOXES & RACKS**

Polypropylene Storage Boxes .....	100–101
Cardboard Storage Boxes .....	102
Cryogenic Storage Boxes .....	102–103
Centrifuge Tube Storage .....	104
Storage Boxes & Racks .....	105
Multi-Tube Racks .....	106–108
PCR Sample Racks .....	108–109

## **BENCHTOP COOLERS**

Chiller Racks .....	110
Ice Bath / Floating Rack .....	110
Transport Cases & Coolers .....	111




## **FREEZER RACKING SYSTEMS**

Stainless Steel Freezer Racking .....	112–114
Aluminium Freezer Racking .....	114

# 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.

ORDER INFORMATION				
	Description	Rack Colour	Pack Size	Cat. No
	<b>StarStore 81</b> 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	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 <sup>1)</sup>	5	I 2381-5048
	<b>StarStore 49</b> 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 Dimensions (WxDxH): 130 x 130 x 46 mm Max. tube height: 60 mm	Natural	5	E2349-5009
	<b>StarStore</b> 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	Natural	5	E2300-5005
Tubes not included. <sup>1)</sup> Mixed pack contains one of each neon colour.				

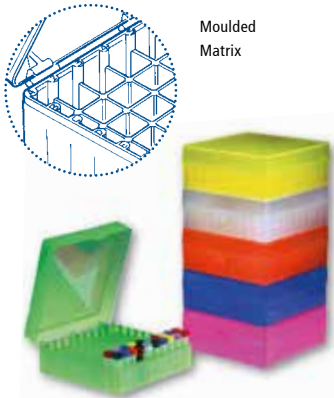

 [www.starlab.click/starstore](http://www.starlab.click/starstore)





The 130 x 130 mm Storage Boxes above can be used in all the Stainless Steel Freezer Racking featured on pages 112–114 or the Aluminum Freezer Racking on p. 114







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

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
 <p>Moulded Matrix</p>	<b>StarStore 100</b> 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	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 <sup>1)</sup>	5	I2310-5848
		StarStore 100 can be used inside the Stainless Steel Freezer Racking on pages 113		
				
Tubes not included. <sup>1)</sup> Mixed pack contains one of each neon colour.				

ORDER INFORMATION				
	Description	Rack Colour	Pack Size	Cat. No
	<b>StarStore 50 Neon (Hinged)</b> 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	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 <sup>1)</sup>	5	I2350-5848
	<b>StarStore 50</b> 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	Natural	5	E2450-5000
		Blue	5	E2450-5001
		Green	5	E2450-5002
		Pink	5	E2450-5004
	<b>StarStore 50</b> 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	Natural	5	E2350-5009
	<b>StarStore 50 Jr.</b> 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	Natural	5	E2305-6009
Tubes not included. <sup>1)</sup> Mixed pack contains one of each neon colour.				


# Cardboard Storage Boxes

ORDER INFORMATION				
	Description	Box Height	Pack Size	Cat. No
<b>White cardboard boxes with moisture-resistant coating for use down to -80°C.</b>  <p>50 mm high boxes can be used in the Stainless Steel Freezer Racks on page 112. All box heights can be used in the Aluminum Freezer Rack on page 114</p> <p>All boxes have the same footprint: 133 x 133 mm (incl. lid). Max. tube diam. stated includes tube cap.</p>	<b>16-Place</b> cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 31 mm diameter	50 mm	1	A9023-1616
		75 mm	1	A9025-1616
		100 mm	1	A9027-1616
	<b>25-Place</b> cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 24.5 mm diameter	50 mm	1	A9023-2525
		75 mm	1	A9025-2525
		100 mm	1	A9027-2525
	<b>49-Place</b> cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 16.5 mm diameter	50 mm	1	A9023-4949
		75 mm	1	A9025-4949
		100 mm	1	A9027-4949
	<b>81-Place</b> cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 13 mm diameter	50 mm	1	A9023-8181
		75 mm	1	A9025-8181
		100 mm	1	A9027-8181
	<b>100-Place</b> cardboard storage boxes, available in 3 heights Removable dividers for tubes up to 12 mm diameter	50 mm	1	A9023-3100
		75 mm	1	A9025-3100
		100 mm	1	A9027-3100

ORDER INFORMATION				
	Description	Box Type	Pack Size	Cat. No
	<b>Cardboard storage boxes for centrifuge tubes</b> 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	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.

ORDER INFORMATION				
	Description	Box Type	Pack Size	Cat. No
 <p>Can be used in the Stainless Steel Freezer Racks on page 112 as well as in the Aluminum Freezer Rack on page 114</p>	<b>Cryogenic storage boxes</b> 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	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 LN<sub>2</sub>. A choice of different colour bases allows you to colour coordinate your samples for easy identification. Temperature use: -196 °C to 121 °C. Autoclavable.

ORDER INFORMATION				
	Description	Base Colour	Pack Size	Cat. No
	<b>25-Place</b> 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 <sup>1)</sup>	5	E2381-5099
	<b>81-Place</b> 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 112 or the Aluminium Rack on page 114	Blue	5	E2382-5001
		Green	5	E2382-5002
		Orange	5	E2382-5003
		Red	5	E2382-5004
		Yellow	5	E2382-5006
		Mixed <sup>1)</sup>	5	E2382-5099
	<b>81-Place, Tall</b> 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 114	Blue	5	E2382-6001
		Green	5	E2382-6002
		Orange	5	E2382-6003
		Red	5	E2382-6004
		Yellow	5	E2382-6006
		Mixed <sup>1)</sup>	5	E2382-6099
	<b>100-Place</b> 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 112 or the Aluminium Rack on page 114	Blue	5	E2383-5001
		Green	5	E2383-5002
		Orange	5	E2383-5003
		Red	5	E2383-5004
		Yellow	5	E2383-5006
		Mixed <sup>1)</sup>	5	E2383-5099

<sup>1)</sup>Mixed pack contains one of each colour.

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

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
Can be used in the Stainless Steel Freezer Racks on page 112 or the Aluminum Freezer Rack on page 114 	<b>StarStore 81Z</b> 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.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Centrifuge tube storage / transport boxes</b> 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 36 x 15 ml	2	E9025-3615
		Blue, for 16 x 50 ml	2	E9025-1650
	<b>Centrifuge tube storage boxes</b> 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
	<b>Wire racks for 15 ml or 50 ml tubes</b> 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 x 15 ml	1	E2396-1515
		Blue, for 8 x 50 ml	1	E2396-1550
	<b>StarRack Multi for 15 ml or 50 ml tubes</b> 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	<b>60-Place Rack</b>		
		Blue	1	E2396-9711
		Green	1	E2396-9712
		Orange	1	E2396-9713
		Violet	1	E2396-9715
		Yellow	1	E2396-9716
		<b>18-Place Rack</b>		
		Blue	1	E2396-9721
		Green	1	E2396-9722
		Orange	1	E2396-9723
		Violet	1	E2396-9725
		Yellow	1	E2396-9726

Tubes not included.

 [www.starlab.click/tubestorage](http://www.starlab.click/tubestorage)

 [www.starlab.click/wireracks](http://www.starlab.click/wireracks)


See also Cardboard Storage Boxes on page 112, plus many of the multi-tube racks on pages 106–108 will accommodate centrifuge tubes



SEE ALSO:  
Stainless Steel Freezer  
Racks for the direct storage  
of Centrifuge Tubes  
on page 113



# Storage Boxes & Racks




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

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>100-Place</b> 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	Natural	5	E2100-5000
		Green	5	E2100-5002
		Red	5	E2100-5004
		Yellow	5	E2100-5006
		Black <sup>1)</sup>	5	E2100-5008
Tubes not included. <sup>1)</sup> Black base and lid				

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
 <p>The StarRack 80 does not have a lid, but an optional storage box is available</p> 	<b>StarRack 80</b> 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	Natural	5	E2380-5000
		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 <sup>1)</sup>	5	E2380-5048
	<b>StarRack 80 Storage Box</b> Polypropylene storage box for StarRack 80 Transparent, hinged lid with natural or coloured base Dimensions (WxDxH): 236 x 85 x 52 mm	Natural	5	E2390-5000
<sup>1)</sup> 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.



ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
Double-sided! 	<b>StarRack 40</b> 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)	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 <sup>1)</sup>	5	E2340-3099
Double-sided! 	<b>StarRack 64</b> 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)  StarRack 64 racks fit inside the Stainless Steel Freezer Racks on page 112 or the Aluminum Freezer Rack on page 114	Natural	1	E2364-1010
		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 <sup>1)</sup>	5	E2364-6048
Double-sided! 	<b>StarRack 96</b> 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)	Natural	1	E2396-0010
		Black	1	E2396-0018
		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 <sup>1)</sup>	5	E2396-5048

<sup>1)</sup>Neon Mixed packs contain one of each neon colour.



 [www.starlab.click/starrack](http://www.starlab.click/starrack)




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

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Combi-Mini</b> 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 <sup>1)</sup>	5	E2345-1099
Two slightly different versions available, both designed to hold an array of tubes 	<b>Combi-Max 92</b> 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	1	E2346-1000
		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
	<b>Combi-Max 96</b> 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	Mixed Neon <sup>1)</sup>	5	E2346-1099
		Blue	1	E2347-1001
		Green	1	E2347-1002
		Orange	1	E2347-1003
		Red	1	E2347-1004
		Violet	1	E2347-1005
		Mixed <sup>1)</sup>	5	E2347-1099

Tubes not included. <sup>1)</sup>Mixed packs contain one of each neon colour.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
 	<b>TwisStar</b> 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/Plates not included.


ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Totally Tubular™</b> – four polypropylene racks in a support tray Each cube contains 29 holes for: 2 x 50 ml tubes (30 mm ø) 6 x 15 ml tubes (17 mm ø) 9 x 1.5/2.0 ml tubes (12 mm ø) 12 x 0.5 ml tubes (11 mm ø) 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.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
<div>Double-sided!</div> 	<b>Connect-A-Rack</b> 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	Blue	5	E2380-6001
		Green	5	E2380-6002
		Orange	5	E2380-6003
		Pink	5	E2380-6004
		Yellow	5	E2380-6006
	<b>Transparent Lid</b> for use with Connect-A-Rack	Clear	5	E2380-6000

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Three-Tier Multi Tube Rack</b> 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	Mixed (one each of Blue, Green, Violet, Yellow, Orange and Natural)	6	E2313-1009

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>StarRack Multi</b>  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 bot- tom without toppling over!  Dimensions (WxDxH): 293 x 115 x 65 mm	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

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>StarPCR Work Rack</b> 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	Mixed (one each of blue, green, red, violet, yellow)	5	E2396-5240

# 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.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Rack A only (Satellite Rack)</b> 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 <sup>1)</sup>	1	E2396-1651
		Neon Green <sup>1)</sup>	1	E2396-1652
		Neon Orang <sup>1)</sup>	1	E2396-1653
		Neon Pink <sup>1)</sup>	1	E2396-1654
		Neon Yellow <sup>1)</sup>	1	E2396-1656
		Mixed Neon <sup>2)</sup>	5	E2396-9659
	<b>Rack B only (Workstation Rack)</b> 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) <b>Rack</b>	Neon Blue <sup>1)</sup>	1	E2396-1641
		Neon Green <sup>1)</sup>	1	E2396-1642
		Neon Orange <sup>1)</sup>	1	E2396-1643
		Neon Pink <sup>1)</sup>	1	E2396-1644
		Neon Yellow <sup>1)</sup>	1	E2396-1646
		Mixed Neon <sup>2)</sup>	5	E2396-9649
	<b>Racks A &amp; B (Complete Workstation)</b> Rack A (without lid) can be inserted into the designated area of Rack B Supplied with lid for Rack B only	Neon Blue <sup>1)</sup>	1+1	E2396-9691
		Neon Green <sup>1)</sup>	1+1	E2396-9692
		Neon Orange <sup>1)</sup>	1+1	E2396-9693
		Neon Pink <sup>1)</sup>	1+1	E2396-9694
		Neon Yellow <sup>1)</sup>	1+1	E2396-9696
		Mixed Neon <sup>3)</sup>	5+5	E2396-9669

<sup>1)</sup>Pack contains one rack with lid. <sup>2)</sup>Pack contains one rack of each colour and five lids. <sup>3)</sup>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.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>PCR Lock-Rack</b> 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.





ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
Hinged lid!	<b>Double-Sided PCR Work Rack</b> 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

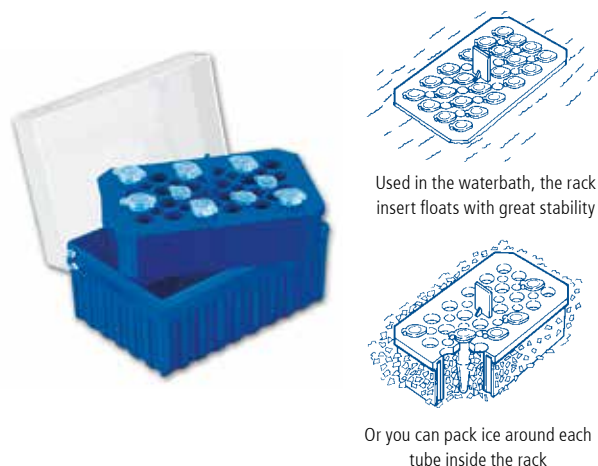
Maintain a fridge environment on the benchtop or on your robot! The centre section of StarChill racks changes colour when frozen. It then gradually turns back to its original colour as it warms up, thus giving an instant, visual-indication of the temperature.

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>StarChill PCR</b> 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 <sup>1)</sup> 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
	<b>StarChill MCT</b> 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 <sup>1)</sup> 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
	<b>StarChill SBS</b> 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 <sup>1)</sup> Dimensions (WxDxH): 128 x 85 x 26 mm	Pink (warm) Purple (cold)	2	E2396-5654
		Yellow (warm) Green (cold)	2	E2396-5656
	<b>StarChill qPCR</b> 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 <sup>1)</sup> Dimensions: 141 x 99 x 44 mm	White (warm) Blue (cold)	2	E2396-3008

<sup>1)</sup>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.

 [www.starlab.click/starchill](http://www.starlab.click/starchill)

## Ice Bath / Floating 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

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Ice Bath / Floating Rack	5	I 2324-5000
Tubes not included.		

# Transport Cases & Coolers

ORDER INFORMATION				
	Description	Colour	Pack Size	Cat. No
	<b>Benchtop Cooler / Transport Case</b> 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	Black	1	I6348-1515
	<b>Cryo Cooler / Transport Case</b> 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	Black	1	I6342-4270
	<b>Mini Cooler</b> 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	Silver	1	I6308-1515
	<b>CryoSecure®</b> 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	White (0 °C Rack)	1	I2312-2720
		Blue (-20 °C Rack)	1	I2312-2721

Tubes not included.



# Stainless Steel Freezer Racking

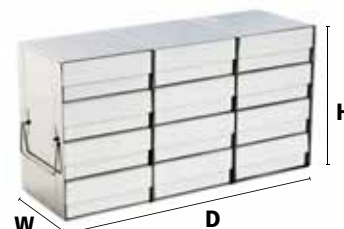
## Freezer racking for standard storage boxes up to 136 x 136 x 55mm

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 100
- ▶ The 50 mm high cardboard storage boxes on page 102
- ▶ The cryogenic storage boxes specified on pages 102–103
- ▶ StarRack 64 on page 106
- ▶ Any storage box up to 136 x 136 x 55mm

Measuring upright freezer racking



I 2602-3400



Racks with side access have a handle on either end

ORDER INFORMATION				
Description	Boxes Deep	Boxes High	Dimensions (WxDxH)	Cat. No.
9-Place SS Rack	3	3	139 x 419 x 168 mm	I 2602-3300
12-Place SS Rack	3	4	139 x 419 x 221 mm	I 2602-3400
15-Place SS Rack	3	5	139 x 426 x 276 mm	I 2602-3500
12-Place SS Rack	4	3	139 x 558 x 168 mm	I 2602-4300
16-Place SS Rack	4	4	139 x 558 x 221 mm	I 2602-4400
20-Place SS Rack	4	5	139 x 558 x 276 mm	I 2602-4500
Boxes not included.				

I 2632-3400



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

ORDER INFORMATION				
Description	Boxes Deep	Boxes High	Dimensions (WxDxH)	Cat. No.
9-Place SS Rack, Pull Out Shelves	3	3	140 x 421 x 171 mm	I 2632-3300
12-Place SS Rack, Pull Out Shelves	3	4	140 x 421 x 228 mm	I 2632-3400
16-Place SS Rack, Pull Out Shelves	4	4	140 x 558 x 228 mm	I 2632-4400
Boxes not included.				

I 2602-1100



I 2602-6000



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

ORDER INFORMATION		
Description	Dimensions (WxDxH)	Cat. No.
6-High SS Rack	140 x 140 x 335 mm	I 2602-6000
7-High SS Rack	140 x 140 x 390 mm	I 2602-7000
8-High SS Rack	140 x 140 x 445 mm	I 2602-8000
9-High SS Rack	140 x 140 x 500 mm	I 2602-9000
10-High SS Rack	140 x 140 x 555 mm	I 2602-1000
11-High SS Rack	140 x 140 x 610 mm	I 2602-1100
12-High SS Rack	140 x 140 x 665 mm	I 2602-1200

 [www.starlab.click/freezerracking](http://www.starlab.click/freezerracking)



### 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 101).

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.

ORDER INFORMATION				
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.				

ORDER INFORMATION		
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.

ORDER INFORMATION			
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 15 ml and 50 ml tubes. Tubes not supplied.			

I 2610-2100

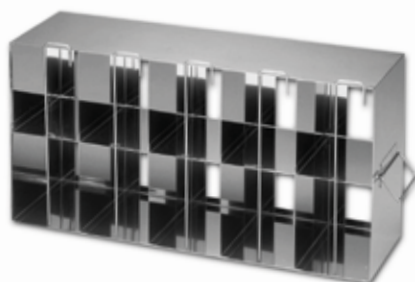
I 2610-1500



The StarStore 100 storage boxes to fit the racks above are on page 101



# 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.

ORDER INFORMATION				
Description	Plates <sup>1)</sup>	Plates <sup>1)</sup> with lid	Dimensions (WxDxH)	Cat. No.
10 Compartment SS Rack	80	70	140 x 467 x 233 mm	I 2652-0957
10 Compartment SS Rack, Extended	120	96	140 x 467 x 280 mm	I 2652-1157
12 Compartment SS Rack	96	84	140 x 559 x 233 mm	I 2662-0957
12 Compartment SS Rack, Extended	144	112	140 x 559 x 280 mm	I 2662-1157
<sup>1)</sup> 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 allow 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.

ORDER INFORMATION			
Description	Shelves	Dimensions (WxDxH)	Cat. No.
Flexible Rack for Chest Freezers	1	145 x 140 x 340 mm	I 2603-0110
Flexible Rack for Chest Freezers	2	145 x 140 x 395 mm	I 2603-0112
Flexible Rack for Chest Freezers	2	145 x 140 x 450 mm	I 2603-0114
Flexible Rack for Chest Freezers	2	145 x 140 x 505 mm	I 2603-0116
Flexible Rack for Chest Freezers	3	145 x 140 x 560 mm	I 2603-0118
Flexible Rack for Chest Freezers	3	145 x 140 x 615 mm	I 2603-0120
Flexible Rack for Chest Freezers	4	145 x 140 x 670 mm	I 2603-0122
Flexible Rack for Chest Freezers	4	145 x 140 x 725 mm	I 2603-0124
Extra Shelf for Flexible Racks	1		I 2603-0130



## Multi Functional

Only one device for  
a variety of applications

**MIXER HC** ..... 116–117

**ASPIRATOR** ..... 118–119

### MIXERS

Rotator Mixer Multi 1 ..... 120

Microplate Mixer ..... 121

Tube Roller ..... 122

### VORTEXERS

Vortex ..... 123

Vortex IR ..... 124

### SHAKERS

Orbital Shaker ..... 125

Rocking & Rocking 3D Shaker ..... 126

### STIRRERS

Magnetic Stirrer ..... 127

Magnetic Stirrer with Heating ..... 127

### DRY BATH INCUBATORS

Mini Dry Bath ..... 128

Single & Dual Block Dry Baths ..... 129

### CENTRIFUGES

Mini Fuge Plus ..... 130

Plate Centrifuge ..... 131

### PCR CABINETS

Airclean® PCR Cabinets ..... 132–133

# Mixer HC



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

The Mixer HC is suitable for a wide range of applications due to the selection of exchangeable thermoblocks (sold separately) available for 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 intuitive setting of parameters and simple programming makes the Mixer HC very easy to use, with all parameters summarized on one, easy to read display. The robust construction despite its small footprint makes the Mixer HC your new companion for your daily lab work.

Nine exchangeable thermoblocks (sold separately) for a wide range of tube and plate formats are available. The Mixer HC offers precise temperature control and broad temperature range for reliable and reproducible sample preparation

## Product features

- ▶ Mixing, heating, cooling and timing combined in one instrument
- ▶ Automatic thermoblock recognition simplifies block exchange
- ▶ PROGRAM mode for creation of individual protocols
- ▶ SHORT MIX function for instant mixing at the push of a button
- ▶ INTERVAL MIX function for alternating between mixing and resting
















### 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.



### Exchangeable Thermoblocks

Nine different thermoblocks are available for a wide range of applications, covering tube volumes from 0.2 ml up to 50 ml as well as SBS format plates.

ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Mixer HC <sup>1)</sup>	1	S8012-0000
Accessories			
	Thermoblock 24 x 0.5 ml Microcentrifuge Tubes <sup>2)</sup>	1	S8012-0010
	Thermoblock 24 x 1.5 ml Microcentrifuge Tubes <sup>3)</sup>	1	S8012-0011
	Thermoblock 24 x 2.0 ml Microcentrifuge Tubes <sup>3)4)</sup>	1	S8012-0012
	Thermoblock 24 x 2.0 ml Microcentrifuge Tubes Ø 12 mm <sup>5)</sup>	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 1.5/2.0 ml Cryo Tubes	1	S8012-0017
	Thermoblock for Micro/Deepwell Plates, with Lid	1	S8012-0018
	Adapter Plate 96 x 0.2 ml (for use with 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

<sup>1)</sup> Thermoblock is not included <sup>2)</sup> Includes Iso-Rack (S8102-0020) for 0.5 ml microcentrifuge tubes (tubes not included) <sup>3)</sup> Includes Iso-Rack (S8102-0021) for 1.5/2.0 ml microcentrifuge tubes (tubes not included) <sup>4)</sup> Rounded Bottoms <sup>5)</sup> V-Shape Bottoms

2-year warranty

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	
1.5 / 2.0 ml microcentrifuge tubes	300 – 1400 1/min <sup>1)</sup>
Speed Range	300 – up to 1500 rpm – depends on the thermoblock used
General Unit Specification	
Sample capacity	Capacity depends on thermoblock used
Type of movement	Orbital
Operation	Mixing, temperature control, simultaneous mixing and temperature control
Cooling rate	2 to 3 °C/min
Heating rate	5 °C/min
Timing capacity	1 min to 99:59 hours, infinitely adjustable
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	90 W
Permissible ambient temperature	4 – 35 °C
Dimensions (W x D x H)	220 x 250 x 125 mm
Weight	3.2 kg
Autoclavable	No
Mixing orbit	3 mm
Permissible Relative Humidity	70 % max.

<sup>1)</sup> Find more information at [www.starlab.click/mixerhc](http://www.starlab.click/mixerhc)

## A perfect match – 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. Visit [www.starlab.click/tubeone](http://www.starlab.click/tubeone) or see page 50 for more information





# Aspirator



## Use two hand controllers without any loss of performance

The STARLAB Aspirator is designed for the safe and efficient 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

- ▶ The powerful pump can operate two hand controllers without any loss of performance
- ▶ Chemically-resistant, high performance pump with long service life
- ▶ Ergonomic, fully autoclavable hand controller
- ▶ Auto ON-OFF pump switch with low noise emission for a quieter working environment
- ▶ Intuitive, reproducible adjustment of suction power via touch panel



### Easy to handle

Pressing the lever allows fine adjustment of the suction power. Permanent suction can also be enabled.



### 8-channel tip adapter

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



### Hydrophobic Filter

















Hydrophobic filter prevents contamination of environment and provides overflow protection.



### Quick coupling

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



ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Aspirator incl. 4l bottle & handcontroller	1	N2400-9000
Accessories			
	Hand controller for Aspirator <sup>1)</sup>	1	N2400-9001
	1-channel tip adapter for controller	1	N2400-9002
	8-channel tip adapter for controller <sup>2)</sup>	1	N2400-9003
	Stand for hand controller	1	N2400-9004
	Tubing for handcontroller, 2.5 m	1	N2400-9005
	Connection Kit for 2nd 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 & 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

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

N2400-9000 is supplied with 4L PP bottle, handcontroller, adapters for pipettes and pipette tips (200, 300 and 1000 µl) and a wall mount for handcontroller.

**Want to set up a second hand controller on your Aspirator?** This is what you will need to purchase:  
N2400-9001 + N2400-9006 or N2400-9008 (N2400-9008 is recommended)

1-year warranty

TECHNICAL SPECIFICATIONS	
Max. pumping speed	16.7 l/min
Adjustable range of vacuum	150 - 850 mbar
Max. permissible inlet/outlet pressure	1.1 bar
Noise level	45 dB(A)
Power supply	230 V + 10 %, 50/60 Hz
Max. power consumption	40 W
Permissible ambient temperature	10 to 40 °C
Permissible relative humidity	30 - 85 %
Dimensions (W × D × H)	408 × 194 × 500 mm
Weight	7.3 kg

 [www.starlab.click/aspirator](http://www.starlab.click/aspirator)

## A perfect match – CytoOne® Bottle Top Filtration Units



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

### More details:

see pages 94-98 or visit  
[www.starlab.click/cytoone](http://www.starlab.click/cytoone)

# Rotator Mixer Multi 1



## Product features

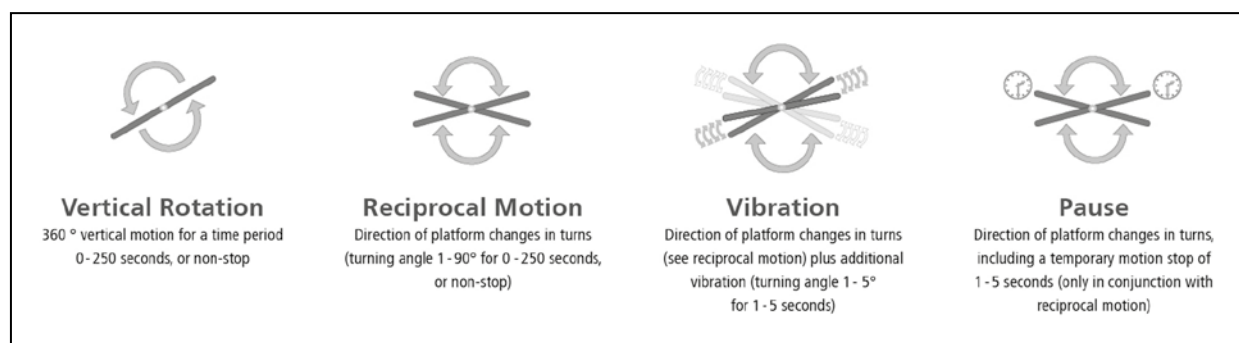
- ▶ Controlled sample inverting
- ▶ Programmable
- ▶ Three different motions
- ▶ Variable speed and timer
- ▶ Low profile and small footprint

## Mix it up!

Compact and multifunctional, the programmable Rotator Mixer 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.

The three different motions – vertical rotation, reciprocal motion and vibration – can be used separately or combined, as well as variable speed and timer functions.

Supplied with a standard platform for 26 tubes up to 15 mm diameter (eg. 1.5 ml, 2.0 ml and 15 ml tubes), STAR-LAB's Rotator Mixer 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 available separately.



ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Rotator Mixer Multi 1	1	N2400-5000
Accessories			
	Platform for 5x50ml + 12x1.5-15ml tubes	1	N2400-5103
	Platform for 26 tubes up to 15mm diameter	1	N2400-5104

N2400-5000 is supplied with platform N2400-5104  
2-year warranty

TECHNICAL SPECIFICATIONS	
Speed Range	1-100 rpm (increment 1 rpm)
Max. Load	0.5 kg
Timing capacity	Auto switch-off: 1 minute - 24 hours. Vertical or Reciprocal Mode: 0 - 250 seconds, or non-stop. Vibration mode: 0 - 5 seconds
Permissible ambient temperature	4 - 40 °C
Dimensions (W × D × H)	365 × 195 × 155 mm
Weight	1.8 kg
Output	1.25 A

[www.starlab.click/rotatormixer](http://www.starlab.click/rotatormixer)

# Microplate Mixer

## 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
- ▶ Wide range of speed from 0 to 1500 rpm
- ▶ Small footprint
- ▶ Stepless speed control
- ▶ Various accessories for microtitre plates and tubes



ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Microplate Mixer	1	N2400-8040
Accessories			
	Attachment for one microtitre plate	1	N2400-8041
	Attachment for two microtitre plates	1	N2400-8042
	Tube Adapter for 15 x 1.5/2.0ml Tubes <sup>1)</sup>	1	N2400-6012
	Microplate Mixer Adapter Plate	1	N2400-8043
	Tube Adapter for 8 x 15ml Centrifuge Tubes <sup>1)</sup>	1	N2400-6013
<sup>1)</sup> N2400-6012 and N2400-6013 can only be used as an attachment in combination with N2400-8043.			

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 123) in combination with its adapter N2400-8043.

2-year warranty

TECHNICAL SPECIFICATIONS	
Speed Range	0 – 1500 rpm <sup>1)</sup>
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
Permissible ambient temperature	4 – 40 °C
Dimensions (W x D x H)	150 x 260 x 80 mm
Weight	3 kg
Permissible Relative Humidity	< 80 %
<sup>1)</sup> 1500 rpm is max. speed with all attachments except for N2400-8042, the max. speed is 1000 rpm.	

 [www.starlab.click/microplate-mixer](http://www.starlab.click/microplate-mixer)

**A perfect match –**  
Deepwell and microplates



## More details:

see page 71 or visit [www.starlab.click/plates](http://www.starlab.click/plates)

# Tube Roller

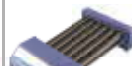


## Rock and roll!

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 unit offers variable speed control and features a sturdy and robust construction.

## Product features

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

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

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
Permissible ambient temperature	4 – 40 °C
Dimensions (W × D × H)	260 × 460 × 120 mm
Weight	4.5 kg
Permissible Relative Humidity	< 80 %
Size of rollers	280 x 30 mm

 [www.starlab.click/tuberoller](http://www.starlab.click/tuberoller)

## A perfect match – Centrifuge Tubes



**For more details:**  
see page 59 or visit  
[www.starlab.click/centrifugetubes](http://www.starlab.click/centrifugetubes)

# 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 up to 2500 rpm
- ▶ Two operating modes: continuous and touch
- ▶ Wide range of accessories
- ▶ Anti-slip, vacuum suction feet
- ▶ Small footprint



ORDER INFORMATION			
	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 <sup>1)</sup>	1	N2400-6012
	Tube Adapter for 8 x 15ml Centrifuge Tubes <sup>1)</sup>	1	N2400-6013
	Adapter for 96 Well Microplates	1	N2400-6014
	Vortex Adapter Plate	1	N2400-6015
<sup>1)</sup> N2400-6012 and N2400-6013 can only be used as an attachment in combination with N2400-6015.			

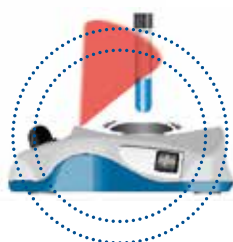
Vortex is supplied with an universal cup for tubes (N2400-6011) as shown in main image. N2400-6012 and N2400-6013 can also be used as an attachment on the Microplate Mixer (see page 66) in combination with its adapter N2400-8043.

2-year warranty

TECHNICAL SPECIFICATIONS	
Speed Range	0 – 2500 rpm <sup>1)</sup>
Max. Load	0.5 kg
Type of movement	Orbital
Orbital Diameter	4 mm
Operation	Two: touch and continuous
Unit Material	Epoxy painted zinc alloy
Power supply	110 – 230 V, 50/60 Hz
Max. power consumption	60 W
Permissible ambient temperature	4 – 40 °C
Dimensions (W x D x H)	127 x 130 x 160 mm
Weight	3.5 kg
Permissible Relative Humidity	< 80 %
<sup>1)</sup> 2500 rpm max. speed only with Universal Cup attachment supplied with unit. When using the optional adapters, max. speed is 1300 rpm.	

 [www.starlab.click/vortex](http://www.starlab.click/vortex)

# Vortex IR



## Vortex IR sensor mode

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

## 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

- ▶ Variable speed control up to 3000 rpm
- ▶ Continuous mode, or sensor mode that automatically starts vibration
- ▶ No pressure needed to maintain vibration
- ▶ Low-profile design
- ▶ Wide range of accessories

ORDER INFORMATION			
	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 (16 mm)	1	N2400-1002
	Foam Attachment for 4 x 50 ml Tubes (29 mm)	1	N2400-1003
	Foam Attachment for Microtitre Plate	1	N2400-1004
	Universal Rubber Attachment	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 (see main image).  
2-year warranty

TECHNICAL SPECIFICATIONS	
Speed Range	0 – 3000 rpm <sup>1)</sup>
Max. Load	0.5 kg
Type of movement	Orbital
Orbital Diameter	4.5 mm
Operation	Two: sensor and continuous
Unit Material	Epoxy painted zinc alloy
Power supply	90 – 260 V, 50/60 Hz
Max. power consumption	15 W
Permissible ambient temperature	4 – 40 °C
Dimensions (W × D × H)	180 × 220 × 70 mm
Weight	2.4 kg
Permissible Relative Humidity	< 80 %
Output	1.25 A
<sup>1)</sup> Maximum 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 is 800 rpm	

 [www.starlab.click/vortexir](http://www.starlab.click/vortexir)

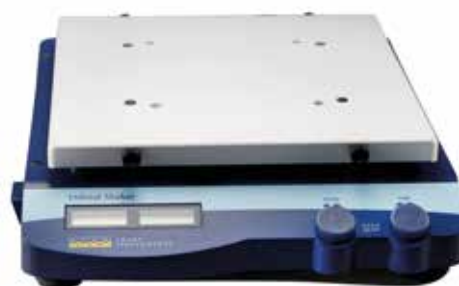


# Orbital Shaker

## 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.

The Orbital Shaker is NOT supplied with a platform. Two platforms are available and sold separately so you can customise your shaker to your requirements.



## Product features

- ▶ Gentle agitation up to vigorous orbital motion
- ▶ LCD displays for speed and time
- ▶ Two operating modes: continuous and timer
- ▶ Choice of two platforms available
- ▶ Holds load up to 7.5 kg

ORDER INFORMATION			
	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 126.

2-year warranty



### Orbital Shaker

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

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

 [www.starlab.click/orbitalshaker](http://www.starlab.click/orbitalshaker)

# Rocking & 3D Rocking Shakers



## 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
- ▶ Easy to use
- ▶ LCD displays for speed and time
- ▶ Two operating modes: continuous and timer
- ▶ Alternative platform available

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

Rocking & 3D Rocking Shakers 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 125.  
2-year warranty

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

 [www.starlab.click/shakers](http://www.starlab.click/shakers)


# 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.

## Product features

- ▶ Variable speed range 100 - 1500 rpm
- ▶ Stirring volume up to 3 litres
- ▶ Includes 40 mm stir bar
- ▶ Compact design
- ▶ Easy to Clean

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

2-year warranty



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
Permissible ambient temperature	4 – 40 °C
Dimensions (W × D × H)	155 × 215 × 75 mm
Weight	0.9 kg
Permissible Relative Humidity	< 80 %



# 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.

## Product features

- ▶ Fast temperature ramping saves time
- ▶ Speed and temperature LED Display
- ▶ Hotplate safety warning light
- ▶ Chemically-resistant ceramic-coated plate
- ▶ Includes 40mm stir bar

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

2-year warranty



TECHNICAL SPECIFICATIONS	
Speed Range	0 – 1500 rpm
Max. stirring volume	3 l
Plate Diameter	135 mm
Power supply	200 – 240 V, 50/60 Hz
Permissible ambient temperature	4 – 40 °C
Dimensions (W × D × H)	155 × 215 × 75 mm
Weight	1.4 kg
Permissible Relative Humidity	< 80 %
Temperature range	Ambient to 280 °C with 1 °C increments

 [www.starlab.click/magnetic-stirrer](http://www.starlab.click/magnetic-stirrer)

# Mini Dry Bath Incubator



## Tiny, but powerful!

A very small yet 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 mini water bath or bead bath.

## Product features

- ▶ Microprocessor controlled temperature and timer
- ▶ Very small footprint
- ▶ Easy, user calibration
- ▶ Digital display
- ▶ Can also be used as a mini water or bead bath

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

<sup>1)</sup> Metal Blocks are not included and must be purchased separately.

Metal Blocks are not included and must be purchased separately.  
All metal blocks are supplied with a screw-in handle for easy insertion and removal.  
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
Timing capacity	0–999 mins, continuous
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	50 W
Operating temperature	Ambient to 40 °C (0.1°C increments)
Dimensions (W × D × H)	125 × 153 × 97 mm
Weight	0.6 kg

 [www.starlab.click/mini-dry-bath](http://www.starlab.click/mini-dry-bath)

# Dry Bath System (Single and Dual)

## 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
- ▶ Easy user calibration
- ▶ Digital display
- ▶ Single or dual block units available
- ▶ Use as mini water bath or bead bath possible

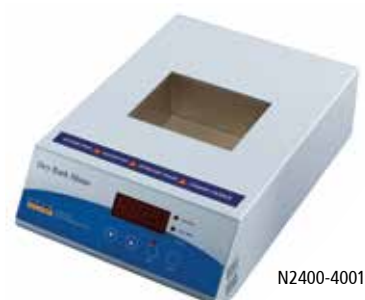


ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Dry Bath System (Single Block) <sup>1)</sup>	1	N2400-4001
	Dry Bath System (Dual Block) <sup>1)</sup>	1	N2400-4002
Accessories			
	Metal Block for 64 x 0.2ml Tubes	1	N2400-4100
	Metal Block for 20 x 1.5ml or 2.0ml Tube	1	N2400-4101
	Metal Block for 12 x 15ml Centrifuge Tube	1	N2400-4102
	Metal Block for 4 x 50ml Centrifuge Tubes	1	N2400-4103
	Metal Block for 20 x 1.5ml 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 13mm Diameter	1	N2400-4106
	Metal Block for 96-Well PCR Plates (Single)	1	N2400-4107
	Metal Block for 96-Well PCR Plates (Dual)	1	N2400-4108
<sup>1)</sup> Metal Blocks are not included and must be purchased separately. All metal blocks are supplied with a screw-in handle for easy insertion and removal.			

2-year warranty

TECHNICAL SPECIFICATIONS		
Model	Dry Bath System (Single Block)	Dry Bath System (Dual Block)
Unit Material	Aluminium	
Safety Device	Leak-proof heating chamber	
Controller	Digital Microprocessor	
Display	digital	
Temperature increase	0.1 °C	
Temperature calibration	yes	
Temperature uniformity	±0.2 °C	
Temperature accuracy	±0.2 °C	
Water bath volume	400 ml	800 ml
Block Dimensions	80 x 105 x 50 mm (except N2400-4108)	
Timing capacity	0-999 minutes	
Power supply	220 V	
Operating temperature	5 °C above ambient to 150 °C	
Dimensions (W x D x H)	200 x 270 x 80 mm	200 x 290 x 80 mm
Weight	2.6 kg	2.8 kg

[www.starlab.click/dry-bath-systems](http://www.starlab.click/dry-bath-systems)



N2400-4001

# Mini Fuge PLUS




## Every bench should have one!

The Mini Fuge PLUS centrifuge is ideal for quick spin down of condensate, vortexed or thawed samples. Microfiltration and cell separation with a speed of 2000 x g is also possible.

## Product features

- ▶ 8-place rotor for 0.2/0.5/1.5/2.0 ml tubes, including screw cap tubes
- ▶ 32-place strip rotor for 0.2 ml tubes or strips
- ▶ Quick, easy rotor change without the need for tools
- ▶ Option of electronic braking or gradual spin stop
- ▶ Second lid switch for added safety

ORDER INFORMATION			
	Description	Pack Size	Cat. No.
	Mini Fuge PLUS	1	N2631-0017

Mini Fuge PLUS is supplied with two rotors – 'Standard' for use with 1.5/2.0 ml tubes, and 'Strip' for use with 0.2 ml tubes. Includes adapters to convert the Standard rotor for use with 0.2 and 0.5 ml tubes.  
2-year warranty



TECHNICAL SPECIFICATIONS	
Speed	6000 rpm
Fuse	0.35 A
Power supply	100 – 240 V, 50/60 Hz
Permissible ambient temperature	5 – 40 °C
Dimensions (W × D × H)	15 × 15 × 11.6 cm
Weight	1.2 kg
Permissible Relative Humidity	>80%
RCF	2000 × g

 [www.starlab.click/minifuge-plus](http://www.starlab.click/minifuge-plus)

## A perfect match – PCR Strips and Tubes



### For more details:

see pages 61–64 or visit  
[www.starlab.click/pcrtubes](http://www.starlab.click/pcrtubes)  
[www.starlab.click/pcrstrips](http://www.starlab.click/pcrstrips)





# Plate Centrifuge





## You spin me round!

The plate centrifuge makes the safe and quick spin down of droplets and condensation very easy. 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

- ▶ Less than quarter the size of most plate centrifuges
- ▶ 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

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

2-year warranty

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

 [www.starlab.click/platecentrifuge](http://www.starlab.click/platecentrifuge)

## A perfect match – PCR Plates

STARLAB offers a comprehensive range of high-quality PCR plates that provide reproducible results.

### For full details:

See pages 66–69 or visit  
[www.starlab.click/pcrplates](http://www.starlab.click/pcrplates)



# PCR Cabinets



## Get results – not background!

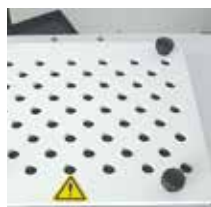
AirClean® Systems PCR Workstations are designed as application solutions for the manipulation and amplification of RNA and DNA. Cross-contamination during amplification of RNA and DNA can lead to results that are inaccurate — results that cost you valuable time and consume expensive reagents.

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

## 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
- ▶ One piece construction ensures no UV energy can escape
- ▶ Supplied ready-assembled – just plug and play!

**AirClean® Systems**  
"THE FUME CONTROL EXPERTS"



### Pre-filtration

Pre-filtration of gross particles via the electrostatic prefilter prolongs the life of the HEPA filter (Laminar Flow models only).



### HEPA filter

HEPA filter for Class 100 (ISO 5) particulate-free environment (Laminar Flow models only)



### AirClean display

UVTect™ microprocessor controller monitors the life of the consumables so you can be sure both your filter and UV bulb is working effectively



### Sash overlap

Sash overlap eliminates potential exposure to harmful shortwave UV irradiation



### Built-in safety

Built-in safety switch automatically shuts off the UV light (and turns on the blower when the sash is opened - Laminar Flow models only)



### UV reflection

Constructed from polycarbonate which reflects UV light to efficiently irradiate all surfaces and objects within the cabinet. Polycarbonate does not turn yellow and crack over time in the way cabinets made from acrylic often do



### Internal shelf

Shelf situated directly under UV lamp so your critical items are close to the UV energy source



### Flat polypropylene base

Flat polypropylene base for easy and comfortable use during pipetting – no uncomfortable ledges to lean on!



### Slip hatch

Convenient slip hatch for equipment leads; keeps them tidy and away from your working area



### Trolley stand

Optional trolley stand available (Height: 32")

PCR CABINETS		
Description	Pack Size	Cat. No.
<b>Dead Air Cabinets</b>		
Dead Air Cabinet 32" <sup>1)</sup>	1	N2540-8400
Dead Air Cabinet 48" <sup>1)</sup>	1	N2540-8500
<b>Laminar Flow Cabinets</b>		
Laminar Flow Cabinet 32" <sup>2)</sup>	1	N2530-8200
Laminar Flow Cabinet 48" <sup>2)</sup>	1	N2530-8300

<sup>1)</sup> These cabinets do not have a filter system. They provide a circulation-free environment with UV light sterilisation.

<sup>2)</sup> Pre- and HEPA filters provide a Class 100 (ISO 5) vertical laminar flow environment in combination with UV light sterilisation.

1-year warranty

PCR CABINET ACCESSORIES		
Description	Pack Size	Cat. No.
<b>Trolley Stand</b>		
Trolley for 32" Workstations <sup>1)</sup>	1	N2520-3200
Trolley for 48" Workstations <sup>1)</sup>	1	N2520-4800
<b>UV Bulbs</b>		
UV Bulbs (Pack of 4) <sup>1)</sup>	4	N2530-1500
<b>Pre-Filters</b>		
Pre-Filters for 32" Laminar Flow (Pack of 12)	12	N3942-7500
Pre-Filters for 48" Laminar Flow (Pack of 12)	12	N3952-7518
<b>HEPA Filters</b>		
HEPA Filter for 32" Laminar Flow	1	N3942-7000
HEPA Filter for 48" Laminar Flow (2 required)	1	N3952-7018

<sup>1)</sup> For use with both Dead Air and Laminar Flow units.

## A perfect match – PCR Plates



STARLAB offers a comprehensive range of high-quality PCR plates that provide reproducible results.

**For full details:** See pages 66–69 or visit [www.starlab.click/pcrplates](http://www.starlab.click/pcrplates)

## A perfect match - Multi-Tube Racks



### More details:

See pages 106–108 for our range of racks, ideal for use in the hood or visit [www.starlab.click/tuberacks](http://www.starlab.click/tuberacks)

TECHNICAL SPECIFICATIONS				
Model	Dead Air Cabinet 32"	Dead Air Cabinet 48"	Laminar Flow Cabinet 32"	Laminar Flow Cabinet 48"
Power supply	220 V			
Dimensions (W × D × H)	813 mm × 610 cm × 762 mm	1219 mm × 610 cm × 813 mm	813 mm × 610 cm × 762 mm	1219 mm × 610 cm × 813 mm
Weight	46 kg		82 kg	
Air velocity	n/a		digital	
Fluorescent bulb	yes			
HEPA Filter	no		yes	
HEPA Filter Life Monitor	no		yes	
Lab Event Timer	yes			
Pre-Filter	no		yes	
UV Bulb	1 x 15 W, 254 nm		2 x 15 W, 254 nm	
UV Bulb Life Monitor	yes			
UV Light Timer	0 – 60 mins (digital)			
UV Safety Interlock Switch	yes			
UVTect Controller	yes			
Variable Speed Blow Control	n/a		yes	

## StarGuard®, ErgoOne®, TipOne® & TubeOne® - The perfect match

1

### StarGuard® Gloves

STARLAB is committed to providing the best hand protection available. Regardless of the application and user preferences, our four StarGuard® disposable gloves offer daily protection in the laboratory without sacrificing comfort.

 [www.starlab.click/starguard](http://www.starlab.click/starguard)

2

### ErgoOne® Pipettes

ErgoOne® provides you with accuracy and precision you can trust, and a stylish new 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® Tips for the perfect pipetting partnership.

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

 [www.starlab.click/manualpipettes](http://www.starlab.click/manualpipettes)

3

### TipOne® Pipette Tips

TipOne® is the original refillable, reusable 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.

 [www.starlab.click/tipone](http://www.starlab.click/tipone)

4

### TubeOne® 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.

 [www.starlab.click/tubeone](http://www.starlab.click/tubeone)





## Smart packaging!

Eco-friendly larger pack sizes

### DISPOSABLE GLOVES

Your Personal Protection .....	136
Guidelines and Standards .....	137
StarGuard® Nitrile gloves .....	138–140
StarGuard® Latex gloves .....	141
StarGuard® Specifications .....	142
StarGuardselect .....	143
Glove Box Dispenser .....	143
Microflex® Gloves .....	144–147



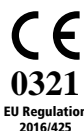
# Your Personal Protection



## Providing certified protection

Our range of StarGuard® gloves are in compliance with the highest EN safety standards. For the newest EN ISO 374-1, all gloves are classified as Type B and therefore belong to a high protection class against chemicals and micro-organisms. Two of our gloves have an **Acceptable Quality Level (AQL) of 0.65**.

All gloves have been tested against a variety of chemicals to EN16523-1:2015 standards (see *Chemical Break-through Times* available separately). For EN ISO 374-5, they also fulfill the ISO 16604:2004 which states the protection against bacteria, fungi and virus.



STARLAB is committed to providing the best hand protection available. Regardless of the application and user preferences, our four 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

**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 a third-party notified body.

### ALL StarGuard® gloves are in compliance with:

- ▶ EU Regulation 2016/425, PPE Category III.
- ▶ European Medical Device Directive 93/42/EEC, Class I Medical Device
- ▶ EN 420:2003 General requirements for protective gloves
- ▶ EN ISO 374-1:2016 Protection against chemicals and micro-organisms
- ▶ EN 374-2:2014 Protection against penetration by micro-organisms
- ▶ EN 16523-1:2015 Permeation by liquid chemicals under conditions of continuous contact
- ▶ EN 374-4:2013 Determination of resistance to degradation
- ▶ EN ISO 374-5:2016 Requirements for micro-organisms risks
- ▶ ISO 16604:2004 Protection against penetration by blood-borne pathogens
- ▶ EN 455 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

 [www.starlab.click/protection](http://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 EU Regulation 2016/425 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, the glove manufacturer is self-declaring the glove's EN credentials.

PROTECTIVE GLOVES AGAINST DANGEROUS CHEMICALS AND MICRO-ORGANISMS																																																																															
European Standard	Pictogram	Performance Ranking	Description																																																																												
EN 374-1:2016 Terminology and performance requirements for chemical risks	<div>EN ISO 374-1:2016/Type A</div> <div></div> <div>XXXXXX</div>	<b>Type A</b> Minimum breakthrough time for at least 6 reference chemicals >30 min.	<div>List of 18 test (or "reference") chemicals which are used for glove classification</div> <table><thead><tr><th>Code letter</th><th>Chemical</th><th>CAS number</th><th>Class</th></tr></thead><tbody><tr><td>A</td><td>Methanol</td><td>67-56-1</td><td>Primary alcohol</td></tr><tr><td>B</td><td>Acetone</td><td>67-64-1</td><td>Ketone</td></tr><tr><td>C</td><td>Acetonitrile</td><td>75-05-8</td><td>Nitrile compound</td></tr><tr><td>D</td><td>Dichloromethane</td><td>75-09-2</td><td>Chlorinated paraffin</td></tr><tr><td>E</td><td>Carbon disulphide</td><td>75-15-0</td><td>Organic compound containing sulphur</td></tr><tr><td>F</td><td>Toluene</td><td>108-88-3</td><td>Aromatic hydrocarbon</td></tr><tr><td>G</td><td>Diethylamine</td><td>109-89-7</td><td>Amine</td></tr><tr><td>H</td><td>Tetrahydrofuran</td><td>109-99-9</td><td>Heterocyclic and ether compound</td></tr><tr><td>I</td><td>Ethyl acetate</td><td>141-78-6</td><td>Ester</td></tr><tr><td>J</td><td>n-heptane</td><td>142-82-5</td><td>Saturated hydrocarbon</td></tr><tr><td>K</td><td>40 % Sodium hydroxide</td><td>1310-73-2</td><td>Inorganic base</td></tr><tr><td>L</td><td>96 % Sulphuric acid</td><td>7664-93-9</td><td>Inorganic mineral acid</td></tr><tr><td>M</td><td>65 % nitric acid</td><td>7697-37-2</td><td>Inorganic mineral acid</td></tr><tr><td>N</td><td>99 % acetic acid</td><td>64-19-7</td><td>Organic acid</td></tr><tr><td>O</td><td>25 % ammonium hydroxide</td><td>1336-21-6</td><td>Organic base</td></tr><tr><td>P</td><td>30 % hydrogen peroxide</td><td>7722-84-1</td><td>Peroxide</td></tr><tr><td>S or Q</td><td>40 % hydrofluoric acid</td><td>7664-39-3</td><td>Inorganic mineral acid</td></tr><tr><td>T or R</td><td>37 % formaldehyde</td><td>50-00-0</td><td>Aldehyde</td></tr></tbody></table> <div>The "reference chemicals" shall be identified by their code letter under the flask pictogram.</div>	Code letter	Chemical	CAS number	Class	A	Methanol	67-56-1	Primary alcohol	B	Acetone	67-64-1	Ketone	C	Acetonitrile	75-05-8	Nitrile compound	D	Dichloromethane	75-09-2	Chlorinated paraffin	E	Carbon disulphide	75-15-0	Organic compound containing sulphur	F	Toluene	108-88-3	Aromatic hydrocarbon	G	Diethylamine	109-89-7	Amine	H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound	I	Ethyl acetate	141-78-6	Ester	J	n-heptane	142-82-5	Saturated hydrocarbon	K	40 % Sodium hydroxide	1310-73-2	Inorganic base	L	96 % Sulphuric acid	7664-93-9	Inorganic mineral acid	M	65 % nitric acid	7697-37-2	Inorganic mineral acid	N	99 % acetic acid	64-19-7	Organic acid	O	25 % ammonium hydroxide	1336-21-6	Organic base	P	30 % hydrogen peroxide	7722-84-1	Peroxide	S or Q	40 % hydrofluoric acid	7664-39-3	Inorganic mineral acid	T or R	37 % formaldehyde	50-00-0	Aldehyde
	Code letter	Chemical		CAS number	Class																																																																										
	A	Methanol		67-56-1	Primary alcohol																																																																										
B	Acetone	67-64-1	Ketone																																																																												
C	Acetonitrile	75-05-8	Nitrile compound																																																																												
D	Dichloromethane	75-09-2	Chlorinated paraffin																																																																												
E	Carbon disulphide	75-15-0	Organic compound containing sulphur																																																																												
F	Toluene	108-88-3	Aromatic hydrocarbon																																																																												
G	Diethylamine	109-89-7	Amine																																																																												
H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound																																																																												
I	Ethyl acetate	141-78-6	Ester																																																																												
J	n-heptane	142-82-5	Saturated hydrocarbon																																																																												
K	40 % Sodium hydroxide	1310-73-2	Inorganic base																																																																												
L	96 % Sulphuric acid	7664-93-9	Inorganic mineral acid																																																																												
M	65 % nitric acid	7697-37-2	Inorganic mineral acid																																																																												
N	99 % acetic acid	64-19-7	Organic acid																																																																												
O	25 % ammonium hydroxide	1336-21-6	Organic base																																																																												
P	30 % hydrogen peroxide	7722-84-1	Peroxide																																																																												
S or Q	40 % hydrofluoric acid	7664-39-3	Inorganic mineral acid																																																																												
T or R	37 % formaldehyde	50-00-0	Aldehyde																																																																												
	<div>EN ISO 374-1:2016/Type B</div> <div></div> <div>XXX</div>	<b>Type B</b> Minimum breakthrough time for at least 3 reference chemicals >30 min.																																																																													
	<div>EN ISO 374-1:2016/Type C</div> <div></div> <div>X</div>	<b>Type C</b> Minimum breakthrough time for one reference chemical >10 min.																																																																													
EN 374-2:2014 Determination of resistance to penetration	no official pictogram	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.																																																																												
EN 16523-1:2015 Permeation by liquid chemicals under conditions of continuous contact	no official pictogram	Level 1: >10 min Level 2: >30 min Level 3: >60 min Level 4: >120 min Level 5: >240 min Level 6: >480 min	Performance Levels which describes the resistance to permeation by chemicals. Chemical Breakthrough is the time from the start of the test to the time the chemical is detected moving through the material at a defined rate of 1µg per cm² per minute. Three measurements are taken and the minimum breakthrough time is stated.																																																																												
EN 374-4:2013 Determination of resistance to degradation by chemicals	no official pictogram	no performance requirements	Degradation is the change of puncture resistance after chemical contact with the claimed "reference chemicals" noted below the pictogram of EN ISO 374-1.																																																																												
EN 374-5:2016 Terminology and performance requirements for micro-organisms risks	<div>EN ISO 374-5:2016</div> <div></div>	Minimum AQL of 1.5	Protection against bacteria and fungi.																																																																												
	<div>EN ISO 374-5:2016</div> <div></div> <div>VIRUS</div>	< 1 PFU* within Assay titer  *Plaque-Forming Unit	ISO 16604:2004 (part B) Clothing for protection against contact with blood and body fluids - Determination of resistance of protective clothing materials to penetration by blood-borne pathogens - Test method using Phi-X 174 bacteriophage.																																																																												

# StarGuard® Comfort



EN ISO 374-1/Type B



EN ISO 374-5:2016



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
- ▶ Comfort and chemical protections needs to combine
- ▶ Testing or handling food stuffs

## 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.<sup>2)</sup>



## ORDER INFORMATION

Description	Pack Size	Cat. No.
StarGuard® Comfort, Nitrile Gloves, XS	10 × 250	SG-C-XS
StarGuard® Comfort, Nitrile Gloves, S	10 × 250	SG-C-S
StarGuard® Comfort, Nitrile Gloves, M	10 × 250	SG-C-M
StarGuard® Comfort, Nitrile Gloves, L	10 × 250	SG-C-L
StarGuard® Comfort, Nitrile Gloves, XL <sup>1)</sup>	10 × 230	SG-C-XL

<sup>1)</sup> 230 gloves per box XL, <sup>2)</sup> www.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

**Light Blue Nitrile Glove. Textured Fingers**  
**Length: 245 mm. 250 Gloves per Box<sup>1)</sup>**



## 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

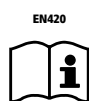


## ... yet Strong

an extremely soft but strong glove that provides excellent elasticity

[www.starlab.click/sg-comfort](http://www.starlab.click/sg-comfort)

# StarGuard® Protect



**AQL 0.65**

## Recommended for use when:

- ▶ Everyday protection requires strength and durability
- ▶ You need 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 grease.

## Outstanding chemical breakthrough times

- ▶ Acrylamide (40%) > 480 mins
- ▶ Ethidium Bromide (5%) > 480 mins
- ▶ Gluteraldehyde (50%) > 480 mins

ORDER INFORMATION		
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

 [www.starlab.click/sg-protect](http://www.starlab.click/sg-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

**Violet-Blue Nitrile Glove. Textured Fingers**  
**Length: 250 mm. 100 Gloves per Box**



## For everyday, reliable protection

The durable but soft material offers excellent comfort while performing delicate tasks, without compromising splash protection.



**Longer!**  
250 mm long to provide splash protection for your hand and wrist



**Strength and durability**  
hand protection you can rely on everyday

# StarGuard® Sensitive



EN ISO 374-1/Type B



AQL 1.5



EN ISO 374-5:2016



## 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
- ▶ Testing or handling food stuffs

## 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!

## 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**  
**Blue Nitrile Glove. Textured Fingers**  
**Length: 250 mm. 200 Gloves per Box**



## 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.

ORDER INFORMATION		
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



[www.starlab.click/sg-sensitive](http://www.starlab.click/sg-sensitive)



## 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® Touch



**AQL 1.5**

## 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**  
**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.

ORDER INFORMATION		
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 <sup>1)</sup>	10 × 90	SG-T-XL

<sup>1)</sup> 90 gloves per box XL

[www.starlab.click/sg-touch](http://www.starlab.click/sg-touch)



**Natural rubber**  
for tactile sensitivity



**Fully textured**  
for a secure grip



# StarGuard® Glove Specifications

	StarGuard® <b>COMFORT</b>	StarGuard® <b>PROTECT</b>	StarGuard® <b>SENSITIVE</b>	StarGuard® <b>TOUCH</b>
Gloves per Case	10 x 250 (XL 230)	10 x 100	10 x 200	10 x 100 (XL 90)
Glove Type	Nitrile	Nitrile	Nitrile	Latex
Type	Powder-Free, Ambidextrous, Single Use, Non-Sterile			
Colour	Light-Blue	Violet-Blue	Blue	Natural
Cuff	Beaded	Beaded	Beaded	Beaded
Texture	Fingers	Fingers	Fingers	Fully
Weight (g)	3.5	5.2	4.2	6
Length (mm)	245	250	240	245
Cuff Thickness (mm)	0.06	0.09	0.06	0.10
Palm Thickness (mm)	0.07	0.11	0.07	0.13
Finger Thickness (mm)	0.11	0.18	0.10	0.16
Minimum Elongation before Aging (%)	500	500	500	650
Elongation after Aging (%)	400	400	400	600
Tensile Strength before Aging (MPa)	33	30	29	22
Tensile Strength after Aging (MPa)	31	29	14	20
Force at Break before Aging (N)	7	10	7	9
Force at Break after Aging (N)	7	11	7	6
Shelf Life (years)	3	3	3	4
AQL	0.65	0.65	1.5	1.5
PPE EU Regulation 2016/425	Personal Protective Equipment (PPE) Category III			
MDD 93/42/EEC	Medical Device Class I			
EN420	In compliance, Sizing for special purpose			
EN 374-1	Type B	Type B	Type B	Type B
EN374-2	Level 3	Level 3	Level 2	Level 2
EN16523-1	In compliance, splash protection			
EN 374-4	In compliance, determination of resistance to degradation			
EN 374-5	In compliance, requirements for micro-organism risks			
EN455	In compliance with Parts 1,2,3			
ISO 11193-1	In compliance, single-use medical examination glove			
ISO 21171	In compliance, determination of removable surface powder			
ISO 16604	In compliance, protection against penetration by blood-borne pathogens			
ASTM D6319	✓	✓	✓	not applicable
ASTM D5712	not applicable	not applicable	not applicable	✓

 [www.starlab.click/starguard](http://www.starlab.click/starguard)



# STARGUARD*select*

## 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.

**STARGUARD*select*** can help you make the right decision quickly.

**STARGUARD*select*** will provide you with your personal protection solution in just a few clicks.

Go to [www.starlabgroup.com/starguardselect](http://www.starlabgroup.com/starguardselect)

### How it works:

A page will open with a list of chemicals that have been tested against our StarGuard® gloves. Select the chemicals which pose the most hazard to you, and click on Next. A list of the optimal gloves for the chemicals selected will be shown. You can also request your StarGuard® sample.



## 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.

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Wire Glove Dispenser	1	E3099-3100

[www.starlab.click/glove-dispenser](http://www.starlab.click/glove-dispenser)



# Microflex® Gloves

## Glove overview

STARLAB is committed to supplying the best hand protection to its customers. To provide a wider choice for our customers, we also sell a range of high quality Microflex gloves for use in the laboratory to help you select the best glove for the job in hand.

**MICROFLEX®**



**XCEED®**  
Ergonomic  
Blue Nitrile

**SUPRENO®**  
Blue  
Nitrile

**93-853**  
Extended  
Blue Nitrile

**93-243**  
Extra Extended  
Blue Nitrile

**73-847**  
Ergonomic  
Neoprene

**93-260**  
Chemical Resistant  
Triple Layered

GLOVE	Material	Interior	Exterior	Colour	Length	Thickness (palm)	AQL	PPE Cat III	High Risk	Pack Size
<b>XCEED®</b>	Nitrile	Powder-free	Textured Fingers	Blue	Standard 240 mm	0.070mm	0.65	✓	✗	10 x 250 <sup>l</sup>
<b>SUPRENO®</b>	Nitrile	Powder-free	Textured Fingers	Blue	Standard 245 mm	0.110mm	0.65	✓	✗	10 x 100
<b>93-853</b>	Nitrile	Powder-free	Textured Fingers	Blue	Extended 295 mm	0.140mm	0.65	✓	✗	10 x 50
<b>93-243</b>	Nitrile	Powder-free	Textured Palm and Fingers	Blue	Extra extended 400 mm	0.120mm	1.5	✓	✗	10 x 100
<b>73-847</b>	Neoprene	Powder-free	Textured Fingers	Dark Green	Standard 245 mm	0.100mm	1.5	✓	✗	10 x 100
<b>93-260</b>	Nitrile and Neoprene	Powder-free	Textured Fingers	Green outside, Blue inside	Extended 300 mm	0.198mm	0.65	✓	✓	10 x 50

## Microflex gloves conform to the following standards

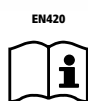
- ▶ PPE Category III, regulation (EU) 2016/425
- ▶ EN 420
- ▶ EN 374-1 Requirements for chemical risks
- ▶ EN 374-2 Protection against penetration by micro-organisms
- ▶ EN 16523 Protection against chemical permeation
- ▶ EN 374-4 Degradation
- ▶ EN 374-5 Requirements for micro-organisms risks
- ▶ ISO 16604 (part B) Protection against viruses
- ▶ ASTM D6978 Use with chemotherapy drugs (Supreno & Microflex 93-853)
- ▶ EN 1149 (Part 1, 2 & 3) Anti-static behavior (Microflex 93-853 & 73-847)
- ▶ EN 388 Mechanical requirements (Microflex 93-260)
- ▶ EN 421 Protective gloves against ionizing radiation and radioactive contamination (Microflex 93-260 & 73-847)
- ▶ EN 388 (93-260 only)
- ▶ European Medical Device Directive 93/42/EEC, CE Class 1
- ▶ EN 455 Parts 1, 2 & 3
- ▶ ASTM F1671 protection against penetration by blood-borne pathogens

**IMPORTANT:** See individual product information for full list of standards that apply to each specific glove.

# Microflex® Gloves



CE  
0493  
EU Regulation  
2016/425



EN ISO 374-1/Type B



EN ISO 374-5:2016



AQL  
0.65

## XCEED – Comfortable ergonomic nitrile protection

A combination of exceptional comfort and strength.

Recommended for use when:

- ▶ Work demands great dexterity and you need a glove to reduce hand fatigue
- ▶ You are looking for significantly stronger protection
- ▶ Working in environments that demand consistent grip and reliability
- ▶ Using Ethidium Bromide (Breakthrough: >480 mins)



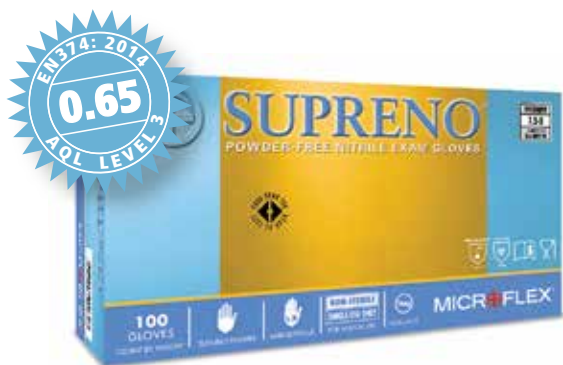
**PPE Cat. III Complex Design**  
**Blue Nitrile Glove. Textured Fingers**  
**Length: 240 mm. 250 Gloves per Box<sup>1)</sup>**

### ORDER INFORMATION

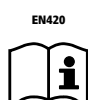
Description	Pack Size	Cat. No.
XCEED® Nitrile Gloves, XS	10 × 250	XC-INT-XS
XCEED® Nitrile Gloves, S	10 × 250	XC-INT-S
XCEED® Nitrile Gloves, M	10 × 250	XC-INT-M
XCEED® Nitrile Gloves, L	10 × 250	XC-INT-L
XCEED® Nitrile Gloves, XL <sup>1)</sup>	10 × 230	XC-INT-XL

<sup>1)</sup> XL 230 gloves

 [www.starlab.click/xceed](http://www.starlab.click/xceed)



CE  
0493  
EU Regulation  
2016/425



EN ISO 374-1/Type B



EN ISO 374-5:2016



AQL  
0.65

## SUPRENO – Everyday nitrile protection

Comfortable nitrile protection for everyday use.

Recommended for use when:

- ▶ Contact with chemicals is a standard activity each day - SUPRENO® provides excellent chemical splash protection
- ▶ Strength and protection are of great importance
- ▶ Working in environments that demand consistent grip and reliability



**PPE Cat. III Complex Design**  
**Blue Nitrile Glove. Textured Fingers**  
**Length: 245 mm. 100 Gloves per Box**

### ORDER INFORMATION

Description	Pack Size	Cat. No.
SUPRENO®, Nitrile Gloves, XS	10 × 100	SU-INT-XS
SUPRENO®, Nitrile Gloves, S	10 × 100	SU-INT-S
SUPRENO®, Nitrile Gloves, M	10 × 100	SU-INT-M
SUPRENO®, Nitrile Gloves, L	10 × 100	SU-INT-L
SUPRENO®, Nitrile Gloves, XL	10 × 100	SU-INT-XL

 [www.starlab.click/supreno](http://www.starlab.click/supreno)

# Microflex® Gloves



**AQL 0.65**

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Microflex 93-853 Nitrile Glove, Ext. Cuff, XS	10 x 50	93-853-XS
Microflex 93-853 Nitrile Glove, Ext. Cuff, S	10 x 50	93-853-S
Microflex 93-853 Nitrile Glove, Ext. Cuff, M	10 x 50	93-853-M
Microflex 93-853 Nitrile Glove, Ext. Cuff, L	10 x 50	93-853-L
Microflex 93-853 Nitrile Glove, Ext. Cuff, XL	10 x 50	93-853-XL

[www.starlab.click/93-853](http://www.starlab.click/93-853)

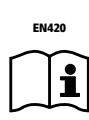
## 93-853 – Reliable hazard protection

Extended cuff provides additional protection over the wrist for hazardous environments. Advanced nitrile formulation offers up to three times the puncture resistance of latex or vinyl disposable gloves.

- ▶ Excellent chemical breakthrough resistance
- ▶ Over wrist protection against laboratory hazards; glove length 295 mm
- ▶ Very high barrier properties (AQL 0.65)
- ▶ Anti-static behavior
- ▶ Approved for use with chemotherapy drugs
- ▶ Medical examination glove



**PPE Cat. III Complex Design**  
**Blue Nitrile Glove. Textured Fingers**  
**Length: 295 mm. 50 Gloves per Bag**



**AQL 1.5**

ORDER INFORMATION		
Description	Pack Size	Cat. No.
Microflex 93-243, Extra Long, XS	10 x 100	93-243-XS
Microflex 93-243, Extra Long, S	10 x 100	93-243-S
Microflex 93-243, Extra Long, M	10 x 100	93-243-M
Microflex 93-243, Extra Long, L	10 x 100	93-243-L
Microflex 93-243, Extra Long, XL	10 x 100	93-243-XL
Microflex 93-243, Extra Long, XXL	10 x 100	93-243-XXL

[www.starlab.click/93-243](http://www.starlab.click/93-243)

## 93-243 – Superior forearm protection

Soft durable nitrile material ensures extended protection up to the elbow with a comfortable feel.

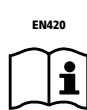
- ▶ Provides extra security over the wrist and forearm
- ▶ Unique cuff design prevents roll-down
- ▶ Textured palm and fingers for a confident secure grip



**PPE Cat. III Complex Design**  
**Blue Nitrile Glove. Textured Fingers**  
**Length: 400 mm. 100 Gloves per Bag**



400 mm glove length for superior forearm protection



EN ISO 374-5:2016



VIRUS

**AQL  
1.5**

EN 421:2010



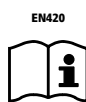
### PPE Cat. III Complex Design

**Green Neoprene Glove. Textured Fingers**  
**Length: 245 mm. 100 Gloves per Box**

#### ORDER INFORMATION

Description	Pack Size	Cat. No.
Microflex 73-847, Neoprene Glove, Ergonomic, XS	10 x 100	73-847-XS
Microflex 73-847, Neoprene Glove, Ergonomic, S	10 x 100	73-847-S
Microflex 73-847, Neoprene Glove, Ergonomic, M	10 x 100	73-847-M
Microflex 73-847, Neoprene Glove, Ergonomic, L	10 x 100	73-847-L
Microflex 73-847, Neoprene Glove, Ergonomic, XL	10 x 100	73-847-XL

[www.starlab.click/73-847](http://www.starlab.click/73-847)



EN ISO 374-1:2016/Type A



EN ISO 374-5:2016



VIRUS

EN 388:2016



2000

**AQL  
0.65**

EN 421:2010



### PPE Cat. III Complex Design

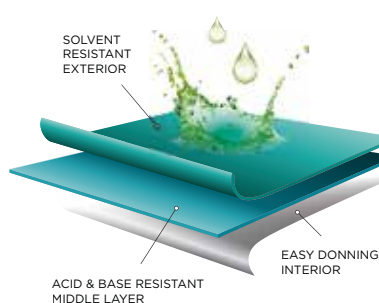
**Green Nitrile/Neoprene Glove. Textured Fingers**  
**Length: 300 mm. 50 Gloves per Box**

#### ORDER INFORMATION

Description	Pack Size	Cat. No.
Microflex 93-260 Nitrile/Neoprene Glove, Chemical Resistant, XS	10 x 50	93-260-XS
Microflex 93-260 Nitrile/Neoprene Glove, Chemical Resistant, S	10 x 50	93-260-S
Microflex 93-260, Nitrile/Neoprene Glove, Chemical Resistant, M	10 x 50	93-260-M
Microflex 93-260 Nitrile/Neoprene Glove, Chemical Resistant, L	10 x 50	93-260-L
Microflex 93-260 Nitrile/Neoprene Glove, Chemical Resistant, XL	10 x 50	93-260-XL
Microflex 93-260 Nitrile/Neoprene Glove, Chemical Resistant, XXL	10 x 50	93-260-XXL

[www.starlab.click/93-260](http://www.starlab.click/93-260)

Innovative  
three layer  
design





# Alphabetical Index

## A

Accredited calibration laboratory .....	46–47
AirClean® PCR Cabinets .....	132–133
Alphabetical Index .....	148
Aluminium Freezer Racking .....	114
Aspiration Pipettes .....	43
Aspirator .....	118–119

## B

Benchtop Coolers .....	111
Block Dry Baths .....	128–129
BMP™ 21-LAB Label Printer .....	80
Boxes and Racks .....	100–110

## C

Calibration Pipettes .....	46–47
Cardboard Storage Boxes .....	102
Centrifuge Tubes 15 ml & 50 ml .....	59, 91
Centrifuge .....	
Mini .....	130
Plate .....	131
Centrifuge Tubes .....	59, 91
Centrifuge Tube Storage .....	100–102, 104–108
Cell Culture Consumables .....	83–98
Chiller Racks .....	110
Coolers .....	111
Cryogenic Storage Boxes .....	102–103
Cryogenic Vials .....	58
Culture Tubes .....	59
CytoOne® .....	
Bottle Top Filtration Units .....	94–95, 97, 119
Centrifuge Tube Filtration System .....	96–97
Centrifuge Tubes 15 ml & 50 ml .....	91
Cell Scrapers .....	90
Cell Strainers .....	92
Dishes .....	85
Flasks with Two-Position Plug Seal Caps .....	88
Flasks with Vented Filter Caps .....	89
Media Bottles (Sterile) .....	98
Multiwell Plates .....	86–87
Syringe Filters .....	93

## D

DAkks .....	47
Deepwell Plates PlateOne® .....	71
Dispenser Tips .....	24
Disposable Gloves .....	135–147
Dry Bath Incubator .....	128–129

## E

ErgoOne® E Electronic Pipettes .....	38–39
ErgoOne® FAST Pipette Controller .....	40–41
ErgoOne® Multi-Channel Pipettes .....	37
ErgoOne® Pipettes: Overview .....	34–35
ErgoOne® Pipette Stands .....	42
ErgoOne® Single-Channel Pipettes .....	36

## F

Filter Tips (Specialty Tips) .....	19–21, 23
Filter Tips, TipOne® .....	10, 14–17
Filtration .....	
Bottle Top Filtration Units .....	94–95
Cell Strainers .....	92
Centrifuge Tube Filtration System .....	96–97
Filtration Funnels .....	75
Syringe Filters .....	93
Freezer Racking .....	112–114

## G

Gel-Xtraction Tool .....	22
Gel-Loading Tips .....	23
Get Green with STARLAB .....	2–3
Gloves .....	
Guidelines and standards .....	137
StarGuard® Comfort .....	138
StarGuard® SENSITIVE .....	140
StarGuard® Protect .....	139
StarGuard® TOUCH .....	141
StarGuard® Glove Specifications .....	142
STARGUARDselect .....	143
Your Personal Protection .....	136
Glove Box Dispenser .....	143
Glove Microflex .....	144–147
Supremo .....	145
XCEED .....	145
93-853 .....	146

93-243 .....	146
73-847 .....	147
93-260 .....	147

## H

Heat Sealing Films .....	73
High Impact Screw Cap Microtubes .....	57

## I

ID Tape .....	79–82
Instruments .....	115–133
Ice Bath / Floating Rack .....	110
Index by Catalogue Number .....	149–151
Individually Wrapped tips .....	19
ISO-Rack (Mixer HC) .....	117

## L

Label Cartridges for BMP™21 Printer Series .....	81
Label Cartridges for LabPal™ & LabXpert™ .....	82
Labelling .....	78–82
Laboratory ID Tape .....	79
Laboratory Labels .....	78
Large Volume tips .....	20–21

## M

Magnetic Stirrer .....	127
Magnetic Stirrer with Heating .....	127
Microcentrifuge .....	130–131
Mini Fuge Plus .....	130
Plate Centrifuge .....	131
Microplates PlateOne® .....	72
Microcentrifuge Tubes .....	50–54
Microcentrifuge Tube Accessories .....	55
Microflex® Nitrile Gloves .....	144–147
Microplate Mixer .....	121
Microtubes in Rack .....	60
Minicentrifuge .....	130
Mini Dry Bath .....	128
Mixer HC .....	116–117
Multi-Tube Racks .....	106–108

## N

Non-Skirted PCR Plates .....	66–67
Notes .....	152–154

## O

Orbital Shaker .....	125
Order form pipette-service .....	48

## P

Parafilm® Sealing Film .....	75
PCR Discs .....	65
PCR Plate-Sealing Overview .....	70, 73–74
PCR Strips .....	62–65
PCR Tubes .....	61
Pipette Tips .....	
Extended Length .....	19
Gel-Loading .....	23
Large Volume .....	20–21
TipOne® .....	6–18
Wide Orifice .....	22
Pipettes .....	
Aspiration .....	43
Calibration .....	46–47
Electronic .....	38–39
Manual .....	34–37
Multi-Channel .....	37, 39
Repeat Dispenser .....	44
Serological .....	43
Service .....	46–47
Single-Channel .....	36, 39
Stands .....	42
Pipette Controllers .....	40–41
Plate Centrifuge .....	131
PlateOne® Deepwell Plates .....	71
PlateOne® Microplates .....	72
Polystyrene Pipettes .....	43
Preparation Tubes .....	55
Polypropylene Storage Boxes .....	100–101, 105
PCR Sample Racks .....	108–109

## R

Racks and Storage Boxes .....	99–114
Reagent Reservoirs .....	76–77
RepeatOne® Dispenser .....	44
Robotic Reservoirs .....	32

Robotic Tips .....	
for Beckman Coulter® .....	28–29
for Packard® .....	30
for Perkin Elmer® .....	32
for Qiagen® .....	30–32
for Tecan® .....	31
Tip–Robot Compatibility .....	27
Rocking Shaker & 3D Rocking Shaker .....	126
Rotator Mixer RM-Multi 1 .....	120
Rotor Gene® Style .....	
Discs .....	65
PCR Strips .....	65
RPT Tips, TipOne® .....	16–17

## S

Screw Cap Microtubes .....	56–57
Sealing Accessories .....	73
Sealing Films & Foils .....	73–74
Self-Adhesive .....	
Lab Labels .....	78–79, 81–82
Plate Seals .....	73–74
Serological Pipettes .....	43
Semi-Skirted PCR Plates .....	68
Service levels .....	46–47
Shaker .....	125–126
Single & Dual Block Dry Bath .....	129
Skirted PCR Plates .....	69
Smart Instruments .....	115–133
Stainless Steel .....	
Freezer Racking .....	112–114
StarChill .....	110
StarGuard® .....	136–143
StarPet Filler (Manual) .....	41
StarRacks .....	104–106, 108
StarSeals .....	73
StarStore Storage Boxes .....	100–101, 103
StarTags .....	78
Stirrers, Magnetic .....	127
StarGuard® Gloves .....	136–142
STARGUARDselect .....	143
Storage Boxes & Racks .....	105
Syringe Filters .....	93

## T

Thermoblock (Mixer HC) .....	116–117
TipOne® .....	
The Trusted Tip .....	6–7
A System with a System .....	8
The Perfect Rack .....	9
The Clever Refill .....	10
The Unique Filter Tip Refill .....	10
The Compact Stack Rack .....	11
The Self-Standing Bag .....	11
TipOne® Pipette Tips .....	12–17
TipOne® Recycling .....	18
TipOne® Repeat Dispenser Tips .....	24
Tips for Beckman Coulter® .....	28–29
Tips for Packard® .....	30
Tips for Perkin Elmer® .....	32
Tips for Qiagen® .....	30–32
Tips for Tecan® .....	31
Tip–Robot Compatibility .....	27
Total Liquid Handling .....	4
Tubes .....	
Centrifuge .....	59, 91
Cryogenic Storage .....	58
Culture .....	59
Labels .....	78
Microcentrifuge .....	50–54
Microtubes in Racks .....	60
PCR .....	61
Preparation .....	55
Screw Cap Microtubes .....	56–57
Storage Boxes & Racks .....	100–114
Tube Roller .....	122
Transport Cases & Coolers .....	111
TwisStar Rack .....	107

## V

Vortex .....	123
Vortex IR .....	124

## W

Wide Orifice Tips .....	22
-------------------------	----



# Index by Catalogue Number

## ► 7

73-847-L.....	147
73-847-M.....	147
73-847-S.....	147
73-847-XL.....	147
73-847-XS.....	147

## ► 9

93-243-L.....	146
93-243-M.....	146
93-243-S.....	146
93-243-XL.....	146
93-243-XS.....	146
93-243-XXL.....	146
93-260-L.....	147
93-260-M.....	147
93-260-S.....	147
93-260-XL.....	147
93-260-XS.....	147
93-260-XXL.....	147
93-853-L.....	146
93-853-M.....	146
93-853-S.....	146
93-853-XL.....	146
93-853-XS.....	146

## ► A

A1402-3700.....	63
A1402-3700-C.....	63
A1402-3800.....	63
A9023-1616.....	102
A9023-2525.....	102
A9023-3100.....	102
A9023-4949.....	102
A9023-8181.....	102
A9025-1616.....	102
A9025-2525.....	102
A9025-3100.....	102
A9025-4949.....	102
A9025-8181.....	102
A9027-1616.....	102
A9027-2525.....	102
A9027-3100.....	102
A9027-4949.....	102
A9027-8181.....	102

## ► B

B1401-3300.....	66
B1401-4400.....	66
B1402-5500.....	61
B1402-9200.....	67
B1402-9300.....	68
B1408-3300.....	61
B1494-1005.....	67, 68
B1494-1024.....	71
B1494-1124.....	71
B1494-1224.....	71, 72

## ► C

CC6000-1116.....	95, 97
CC6000-1122.....	95, 97
CC6027-1171.....	98
CC6027-1172.....	98
CC6027-1173.....	98
CC6032-1402.....	97
CC6032-1411.....	97
CC6032-7233.....	95
CC6032-8233.....	95
CC6032-9233.....	95
CC6034-1141.....	95
CC6034-1142.....	95
CC6034-1143.....	95
CC6034-1403.....	97
CC6034-1412.....	97
CC6062-1233.....	95
CC6062-2233.....	95
CC6062-3233.....	95
CC6064-1162.....	95
CC6064-1163.....	95
CC7600-0220.....	90
CC7600-0250.....	90
CC7600-0320.....	90

CC7672-3340.....	85
CC7672-3359.....	85
CC7672-3394.....	85
CC7672-3614.....	85
CC7672-4175.....	88
CC7672-4225.....	88
CC7672-4325.....	88
CC7672-4415.....	88
CC7672-4815.....	89
CC7672-4822.....	89
CC7672-4825.....	89
CC7672-4875.....	89
CC7672-7506.....	86
CC7672-7512.....	86
CC7672-7524.....	86
CC7672-7548.....	86
CC7672-7596.....	86
CC7682-3340.....	85
CC7682-3359.....	85
CC7682-3394.....	85
CC7682-3614.....	85
CC7682-4175.....	88
CC7682-4225.....	88
CC7682-4325.....	88
CC7682-4415.....	88
CC7682-4815.....	89
CC7682-4822.....	89
CC7682-4825.....	89
CC7682-4875.....	89
CC7682-7506.....	86
CC7682-7512.....	86
CC7682-7524.....	86
CC7682-7548.....	86
CC7682-7596.....	86
CC8111-0042.....	92
CC8111-0072.....	92
CC8111-0102.....	92

## ► E

E1009-7000.....	20
E1009-7001.....	20
E1011-0921.....	19
E1011-1002.....	19
E1011-1008.....	19
E1011-1430.....	19
E1011-8000.....	22
E1011-8400.....	22
E1011-8410.....	22
E1011-9000.....	22
E1021-0618.....	23
E1022-0008.....	23
E1042-2350.....	69
E1042-2500.....	69
E1042-3000.....	69
E1042-3840.....	69
E1042-3849.....	69
E1042-9909.....	69
E1070-2607.....	20
E1070-2596.....	20
E1070-2601.....	20
E1076-0400.....	28
E1076-0410.....	28
E1076-0418.....	28
E1076-0700.....	29
E1076-0800.....	29
E1076-2400.....	28
E1076-2410.....	28
E1076-2418.....	28
E1076-4400.....	28
E1076-4410.....	28
E1076-4418.....	28
E1076-4700.....	29
E1076-4800.....	29
E1078-2400.....	32
E1078-5400.....	32
E1172-1418.....	32
E1173-2418.....	32
E1306-1010.....	76
E1306-1090.....	76
E1306-2510.....	76
E1306-2590.....	76
E1346-1010.....	76

E1346-2510.....	76
E1403-0000.....	66-69
E1403-0100.....	66
E1403-0200.....	66
E1403-0208.....	66
E1403-0209.....	66
E1403-1200.....	66
E1403-1200-C.....	66
E1403-1208.....	66
E1403-1209.....	66
E1403-2200.....	67
E1403-3200.....	67
E1403-4200.....	67
E1403-5200.....	69
E1403-5200-BC.....	69
E1403-5208.....	69
E1403-5209.....	69
E1403-6200.....	68
E1403-6209.....	68
E1403-7700.....	68
E1403-7709.....	68
E1403-8200.....	68
E1403-8209.....	68
E1405-0301.....	57
E1405-0302.....	57
E1405-0304.....	57
E1405-0306.....	57
E1405-0600.....	51
E1405-0610.....	51
E1405-2120.....	56
E1405-2127.....	56
E1405-2130.....	56
E1405-2140.....	56
E1405-2141.....	57
E1405-2142.....	57
E1405-2143.....	57
E1405-2600.....	52
E1405-5100.....	51
E1405-9000.....	55
E1415-0100.....	91
E1415-0200.....	59
E1415-0301.....	57
E1415-0302.....	57
E1415-0304.....	57
E1415-0306.....	57
E1415-0311.....	57
E1415-0312.....	57
E1415-0314.....	57
E1415-0316.....	57
E1415-0700.....	91
E1415-0800.....	59
E1415-1500.....	51
E1415-1510.....	51
E1415-2210.....	56
E1415-2220.....	56
E1415-2227.....	56
E1415-2230.....	56
E1415-2231.....	57
E1415-2232.....	57
E1415-2233.....	57
E1415-2237.....	56
E1415-2240.....	56
E1415-2241.....	57
E1415-2242.....	57
E1415-2243.....	57
E1415-2600.....	52
E1415-2850.....	53
E1420-0301.....	57
E1420-0302.....	57
E1420-0304.....	57
E1420-0306.....	57
E1420-0311.....	57
E1420-0312.....	57
E1420-0314.....	57
E1420-0316.....	57
E1420-2000.....	51
E1420-2010.....	51
E1420-2320.....	56
E1420-2330.....	56
E1420-2331.....	57
E1420-2332.....	57
E1420-2333.....	57

E1420-2337.....	56
E1420-2340.....	56
E1420-2341.....	57
E1420-2342.....	57
E1420-2343.....	57
E1420-2347.....	56
E1420-2641.....	57
E1420-2850.....	53
E1420-5100.....	51
E1420-5108.....	51
E1450-0100.....	91
E1450-0200.....	59
E1450-0400.....	91
E1450-0500.....	59
E1450-0700.....	91
E1450-0800.....	59
E1450-1100.....	55
E1450-1101.....	55
E1450-1102.....	55
E1450-1104.....	55
E1450-1106.....	55
E1450-1108.....	55
E1480-0100.....	56
E1480-0101.....	56
E1480-0102.....	56
E1480-0103.....	56
E1480-0104.....	56
E1480-0105.....	56
E1480-0106.....	56
E1480-0107.....	56
E1480-0108.....	56
E1480-0109.....	56
E1480-0199.....	56
E1480-0200.....	56
E1480-0201.....	56
E1480-0202.....	56
E1480-0203.....	56
E1480-0204.....	56
E1480-0205.....	56
E1480-0206.....	56
E1480-0207.....	56
E1480-0208.....	56
E1480-0209.....	56
E1480-0299.....	56
E1480-0300.....	56
E1480-0301.....	56
E1480-0302.....	56
E1480-0303.....	56
E1480-0304.....	56
E1480-0305.....	56
E1480-0306.....	56
E1480-0309.....	56
E1480-0399.....	56
E1494-6001.....	58
E1494-6002.....	58
E1494-6003.....	58
E1494-6004.....	58
E1494-6005.....	58
E1494-6006.....	58
E1494-6007.....	58
E1494-6009.....	58
E1494-6099.....	58
E1494-6104.....	58
E1494-6108.....	58
E1702-8400.....	60
E1702-8410.....	60
E1703-9400.....	60
E1703-9410.....	60
E1710-0000.....	60
E1710-8000.....	60
E1730-9000.....	60
E1750-0400.....	60
E1750-0410.....	60
E1760-8400.....	60
E1760-8410.....	60
E1770-9400.....	60
E1770-9410.....	60
E2005-5000.....	58
E2100-5000.....	105
E2100-5002.....	105
E2100-5004.....	105
E2100-5006.....	105

E2100-5008.....	105
E2300-5005.....	100
E2301-5309.....	103
E2305-6009.....	101
E2310-0505.....	76
E2310-0510.....	76
E2310-1000.....	77
E2310-1010.....	77
E2310-1025.....	77
E2310-1100.....	77
E2313-1009.....	108
E2340-3099.....	106
E2340-4000.....	106
E2340-4041.....	106
E2340-4042.....	106
E2340-4043.....	106
E2340-4044.....	106
E2340-4046.....	106
E2344-1099.....	107
E2344-2099.....	109
E2345-1000.....	107
E2345-1041.....	107
E2345-1042.....	107
E2345-1043.....	107
E2345-1044.....	107
E2345-1046.....	107
E2345-1099.....	107
E2346-1000.....	107
E2346-1041.....	107
E2346-1042.....	107
E2346-1043.....	107
E2346-1044.....	107
E2346-1046.....	107
E2346-1099.....	107
E2347-1001.....	107
E2347-1002.....	107
E2347-1003.....	107
E2347-1004.....	107
E2347-1005.....	107
E2347-1099.....	107
E2349-5009.....	100
E2350-4001.....	58
E2350-4004.....	58
E2350-4005.....	58
E2350-5009.....	101
E2364-1010.....	106
E2364-1041.....	106
E2364-1042.....	106
E2364-1043.....	106
E2364-1044.....	106
E2364-1046.....	106
E2364-6048.....	106
E2380-5000.....	105
E2380-5041.....	105
E2380-5042.....	105
E2380-5043.....	105
E2380-5044.....	105
E2380-5046.....	105
E2380-5048.....	105
E2380-6000.....	108
E2380-6001.....	108
E2380-6002.....	108
E2380-6003.....	108
E2380-6004.....	108
E2380-6006.....	108
E2381-5001.....	103
E2381-5002.....	103
E2381-5003.....	103
E2381-5004.....	103
E2381-5006.....	103
E2381-5099.....	103
E2382-5001.....	103
E2382-5002.....	103
E2382-5003.....	103
E2382-5004.....	103
E2382-5006.....	103
E2382-5099.....	103
E2382-6001.....	103
E2382-6002.....	103
E2382-6003.....	103
E2382-6004.....	103
E2382-6006.....	103

E2382-6099.....	103
E2383-5001.....	103
E2383-5002.....	103
E2383-5003.....	103
E2383-5004.....	103
E2383-5006.....	103
E2383-5099.....	103
E2390-5000.....	105
E2396-0010.....	106
E2396-0018.....	106
E2396-0041.....	106
E2396-0042.....	106
E2396-0043.....	106
E2396-0044.....	106
E2396-0046.....	106
E2396-0599.....	109
E2396-1515.....	104
E2396-1550.....	104
E2396-1641.....	109
E2396-1642.....	109
E2396-1643.....	109
E2396-1644.....	109
E2396-1646.....	109
E2396-1651.....	109
E2396-1652.....	109
E2396-1653.....	109
E2396-1654.....	109
E2396-1656.....	109
E2396-2004.....	110
E2396-2006.....	110
E2396-3008.....	110
E2396-5240.....	108
E2396-5634.....	110
E2396-5636.....	110
E2396-5654.....	110
E2396-5656.....	110
E2396-9649.....	109
E2396-9659.....	109
E2396-9669.....	109
E2396-9691.....	109
E2396-9692.....	109
E2396-9693.....	109
E2396-9694.....	109
E2396-9696.....	109
E2396-9701.....	108
E2396-9702.....	108
E2396-9703.....	108
E2396-9705.....	108
E2396-9706.....	108
E2396-9711.....	104
E2396-9712.....	104
E2396-9713.....	104
E2396-9715.....	104
E2396-9716.....	104
E2396-9721.....	104
E2396-9722.....	104
E2396-9723.....	104
E2396-9725.....	104
E2396-9726.....	104
E2450-5000.....	101
E2450-5001.....	101
E2450-5002.....	101
E2450-5004.....	101
E2450-5006.....	101
E2796-0100.....	74
E2796-0714.....	73
E2796-0794.....	73
E2796-1100.....	74
E2796-2850.....	74
E2796-3005.....	73
E2796-3015.....	73
E2796-3020.....	73
E2796-3060.....	73
E2796-3070.....	73
E2796-3090.....	73
E2796-9792.....	73
E2796-9793.....	73
E2796-9795.....	73
E2896-1801.....	71
E2999-2496.....	32
E2999-8412.....	32
E3090-6212.....	58

# Index by Catalogue Number

E3090-6222.....58	E9127-1279.....79	I1022-0610.....23	I1405-8200.....61	I2602-4500.....112	N2400-4103.....129
E3090-6242.....58	E9127-1910.....79	I1022-0810.....23	I1409-2700.....63	I2602-6000.....112	N2400-4104.....129
E3090-6321.....58	E9127-1911.....79	I1022-2600.....23	I1409-3700.....64	I2602-7000.....112	N2400-4105.....129
E3099-0000.....42	E9127-1912.....79	I1022-4600.....23	I1409-3800.....64	I2602-8000.....112	N2400-4106.....129
E3099-0001.....42	E9127-1913.....79	I1026-7810.....19	I1409-4700.....62	I2602-9000.....112	N2400-4107.....129
E3099-0002.....42	E9127-1914.....79	I1050-0000.....21	I1409-5700.....62	I2603-0110.....114	N2400-4108.....129
E3099-3100.....143	E9127-1915.....79	I1050-0700.....21	I1412-7400.....60	I2603-0112.....114	N2400-5000.....120
E3110-6112.....58	E9127-1916.....79	I1050-0710.....21	I1412-7410.....60	I2603-0114.....114	N2400-5103.....120
E3110-6121.....58	E9127-1918.....79	I1050-0718.....21	I1414-5500.....54	I2603-0116.....114	N2400-5104.....120
E3110-6122.....58	E9127-1919.....79	I1050-0728.....21	I1415-1000.....53	I2603-0118.....114	N2400-6010.....123
E3110-6131.....58	E9127-2500.....79	I1052-0000.....21	I1415-1001.....53	I2603-0120.....114	N2400-6011.....123
E3110-6132.....58	E9127-2501.....79	I1052-0001.....21	I1415-1002.....53	I2603-0122.....114	N2400-6012.....121, 123
E3110-6141.....58	E9127-2502.....79	I1052-0010.....21	I1415-1003.....53	I2603-0124.....114	N2400-6013.....121, 123
E3110-6142.....58	E9127-2503.....79	I1053-0000.....20	I1415-1004.....53	I2603-0130.....114	N2400-6014.....123
E3840-3000.....19	E9127-2504.....79	I1053-0700.....20	I1415-1005.....53	I2610-0800.....113	N2400-6015.....123
E4111-5222.....75	E9127-2505.....79	I1053-0710.....20	I1415-1006.....53	I2610-1200.....113	N2400-7010.....122
E4111-5226.....75	E9127-2506.....79	I1053-0728.....20	I1415-1007.....53	I2610-1500.....113	N2400-8010.....126
E4111-5452.....75	E9127-2508.....79	I1054-0000.....21	I1415-1008.....53	I2610-1800.....113	N2400-8011.....125, 126
E4111-5454.....75	E9127-2509.....79	I1054-0001.....21	I1415-1508.....55	I2610-1900.....113	N2400-8020.....126
E4111-6222.....75	E9127-2940.....73	I1054-0011.....21	I1415-2500.....53	I2610-2000.....113	N2400-8021.....125, 126
E4111-6226.....75	E9185-0001.....78	I1054-0028.....21	I1415-2501.....53	I2610-2100.....113	N2400-8030.....125
E4111-6452.....75	E9185-0002.....78	I1400-0800.....62	I1415-2502.....53	I2610-2200.....113	N2400-8040.....121
E4111-6454.....75	E9185-0003.....78	I1400-0800-C.....62	I1415-2503.....53	I2610-2300.....113	N2400-8041.....121
E4266-0040.....41	E9185-0004.....78	I1400-0808.....62	I1415-2504.....53	I2615-1000.....113	N2400-8042.....121
E4780-1221.....93	E9185-0006.....78	I1400-0810.....62	I1415-2505.....53	I2615-2600.....113	N2400-8043.....121
E4780-1223.....93	E9185-0009.....78	I1400-0818.....62	I1415-2506.....53	I2615-3600.....113	N2400-9000.....119
E4780-1226.....93	E9185-2240.....78	I1400-0900.....62	I1415-2508.....53	I2632-3300.....112	N2400-9001.....119
E4780-1451.....93	E9186-9987.....78	I1400-1008.....55	I1415-5100.....51	I2632-3400.....112	N2400-9002.....119
E4780-1453.....93	E9187-1009.....78	I1400-1200.....62	I1415-5390.....55	I2632-4400.....112	N2400-9003.....119
E4780-1456.....93	E9187-2016.....78	I1400-1200-C.....62	I1415-5510.....54	I2650-2600.....113	N2400-9004.....119
E4860-0001.....43	E9188-1009.....78	I1400-1208.....62	I1420-2600.....52	I2650-3600.....113	N2400-9005.....119
E4860-0002.....43	E9188-8699.....78	I1400-1290.....62	I1420-2700.....53	I2652-0957.....114	N2400-9006.....119
E4860-0005.....43	E9189-3009.....58, 78	I1400-1300.....62	I1420-2701.....53	I2652-1157.....114	N2400-9007.....119
E4860-0010.....43	E9199-0000.....78	I1402-0400.....65	I1420-2702.....53	I2662-0957.....114	N2400-9008.....119
E4860-0025.....43		I1402-0500.....65	I1420-2703.....53	I2662-1157.....114	N2400-9009.....119
E4860-0050.....43	►G	I1402-0600.....65	I1420-2704.....53	I2928-7355.....73	N2400-9010.....119
E4860-1100.....43	G9001-0010.....39	I1402-1200.....62	I1420-2705.....53	I3080-1038.....75	N2400-9011.....119
E4861-0002.....43	G9001-0020.....39	I1402-1200-C.....62	I1420-2706.....53	I3080-1075.....75	N2400-9012.....119
E4861-0005.....43	G9001-0200.....39	I1402-1208.....62	I1420-2707.....53	I3080-5075.....75	N2400-9013.....119
E4861-0010.....43	G9001-1000.....39	I1402-2700.....63	I1420-2799.....53	I6308-1515.....111	N2400-9014.....119
E4866-2000.....41	G9001-5000.....39	I1402-2800.....63	I1485-0810.....59	I6342-4270.....111	N2400-9015.....119
E9025-1550.....104	G9008-0010.....39	I1402-2900.....63	I1485-2810.....59	I6348-1515.....111	N2520-3200.....133
E9025-1650.....104	G9008-0020.....39	I1402-2908.....63	I1494-1400.....60	I9023-1615.....102	N2520-4800.....133
E9025-2515.....104	G9008-0100.....39	I1402-3500.....62	I1494-1410.....60	I9023-1650.....102	N2530-1500.....133
E9025-3615.....104	G9008-0300.....39	I1402-3500-C.....62	I2310-5800.....101		N2530-8200.....133
E9026-0000.....79	G9012-0010.....39	I1402-3508.....62	I2310-5841.....101	►N	N2530-8300.....133
E9026-2005.....79	G9012-0020.....39	I1402-3509.....62	I2310-5842.....101	N0072-4619.....82	N2540-8400.....133
E9055-1270.....79	G9012-0100.....39	I1402-3600.....62	I2310-5843.....101	N0074-4619.....82	N2540-8500.....133
E9055-1271.....79	G9012-0300.....39	I1402-3609.....62	I2310-5844.....101	N0081-4889.....82	N2631-0008.....131
E9055-1272.....79	G9999-1000.....39	I1402-3700.....64	I2310-5846.....101	N0082-4993.....82	N2631-0017.....130
E9055-1273.....79	G9999-1001.....39, 42	I1402-3708.....64	I2310-5848.....101	N0082-4996.....82	N2631-0018.....131
E9055-1274.....79	G9999-1002.....39, 42	I1402-3800.....64	I2312-2720.....111	N0082-4999.....82	N3000-2000.....80
E9055-1275.....79	G9999-1003.....39, 42	I1402-4300.....61	I2312-2721.....111	N0086-4619.....82	N3000-2002.....80
E9055-1276.....79	G9999-1004.....39, 42	I1402-4308.....61	I2324-5000.....110	N0097-4889.....82	N3795-4391.....81, 82
E9055-1278.....79	G9999-1005.....39	I1402-4700.....62	I2344-1000.....107	N0108-4619.....82	N3795-4392.....81, 82
E9055-1279.....79	G9999-1006.....39	I1402-5700.....62	I2344-1040.....107	N0117-4999.....82	N3795-4393.....81, 82
E9055-1910.....79	G9999-1007.....39	I1402-6700.....62	I2350-5800.....101	N0118-4999.....82	N3795-4394.....81, 82
E9055-1911.....79	G9999-1008.....39	I1402-8100.....61	I2350-5841.....101	N0119-4619.....82	N3795-4396.....81, 82
E9055-1912.....79		I1402-8108.....61	I2350-5842.....101	N2000-0100.....22	N3795-4399.....81, 82
E9055-1913.....79	►I	I1402-8200.....61	I2350-5843.....101	N2400-0001.....124	N3795-4619.....81, 82
E9055-1914.....79	I1009-5000.....20	I1402-9700.....68	I2350-5844.....101	N2400-1001.....124	N3795-4889.....81, 82
E9055-1915.....79	I1010-3000.....23	I1402-9700-C.....68	I2350-5846.....101	N2400-1002.....124	N3795-4999.....81, 82
E9055-1916.....79	I1010-3600.....23	I1402-9708.....68	I2350-5848.....101	N2400-1003.....124	N3795-7425.....81, 82
E9055-1918.....79	I1010-3610.....23	I1402-9709.....68	I2381-2305.....102	N2400-1004.....124	N3942-7000.....133
E9055-1919.....79	I1010-3800.....23	I1402-9800.....68	I2381-5040.....100	N2400-1005.....124	N3942-7500.....133
E9055-2500.....79	I1011-0016.....19	I1402-9800-BC.....68	I2381-5041.....100	N2400-1006.....124	N3952-7018.....133
E9055-2501.....79	I1011-0020.....19	I1402-9809.....68	I2381-5042.....100	N2400-1008.....124	N3952-7518.....133
E9055-2502.....79	I1011-0070.....19	I1402-9909.....68	I2381-5043.....100	N2400-2010.....127	N5127-4619.....81, 82
E9055-2503.....79	I1011-0830.....19	I1404-1000.....54	I2381-5044.....100	N2400-3010.....127	N5127-4889.....81, 82
E9055-2504.....79	I1011-0920.....19	I1405-0510.....54	I2381-5046.....100	N2400-3011.....127	N5127-4999.....81, 82
E9055-2505.....79	I1011-2011.....19	I1405-1500.....52	I2381-5048.....100	N2400-4001.....129	N5127-7425.....81, 82
E9055-2506.....79	I1011-2600.....23	I1405-1501.....52	I2381-5049.....100	N2400-4002.....129	N7519-4619.....81, 82
E9055-2508.....79	I1011-3010.....19	I1405-1502.....52	I2396-5048.....106	N2400-4020.....128	N7519-4889.....81, 82
E9055-2509.....79	I1011-4600.....23	I1405-1503.....52	I2510-5005.....102	N2400-4021.....128	N7519-4999.....81
E9127-1270.....79	I1011-5830.....19	I1405-1504.....52	I2602-1000.....112	N2400-4022.....128	N7519-7425.....81, 82
E9127-1271.....79	I1011-8000.....22	I1405-1505.....52	I2602-1100.....112	N2400-4023.....128	
E9127-1272.....79	I1012-2600.....23	I1405-1506.....52	I2602-1200.....112	N2400-4024.....128	►P
E9127-1273.....79	I1012-3600.....23	I1405-1507.....52	I2602-3300.....112	N2400-4025.....128	P7166-6002.....41
E9127-1274.....79	I1012-3610.....23	I1405-1508.....52	I2602-3400.....112	N2400-4026.....128	P7166-6103.....41
E9127-1275.....79	I1012-4600.....23	I1405-4390.....55	I2602-3500.....112	N2400-4100.....129	P7166-6109.....41
E9127-1276.....79	I1022-0000.....23	I1405-8100.....61	I2602-4300.....112	N2400-4101.....129	P7166-6200.....41
E9127-1278.....79	I1022-0600.....23	I1405-8108.....61	I2602-4400.....112	N2400-4102.....129	P7166-6306.....41, 42

P7166-6402.....	41	S1111-1006.....	13	S1120-1810.....	15	S1181-3710.....	17	S7166-0010.....	41
P7166-6501.....	41	S1111-1006-C.....	13	S1120-1810-C.....	15	S1181-3710-C.....	17	S7200-0000.....	42
P7166-6605.....	41	S1111-1200.....	13	S1120-1840.....	15	S1181-3810.....	17	S7200-0001.....	42
P7166-6701.....	41	S1111-1200-C.....	13	S1120-1840-C.....	15	S1181-3810-C.....	17	S8012-0000.....	117
P7166-6800.....	41	S1111-1206.....	13	S1120-2710.....	15	S1182-1730.....	17	S8012-0010.....	117
P7166-6904.....	41	S1111-1206-C.....	13	S1120-2710-C.....	15	S1182-1730-C.....	17	S8012-0011.....	117
		S1111-1210.....	13	S1120-2810.....	15	S1182-1830.....	17	S8012-0012.....	117
►R		S1111-1210-C.....	13	S1120-2810-C.....	15	S1182-1830-C.....	17	S8012-0013.....	117
R1028-0810.....	30, 31	S1111-1700.....	12	S1120-3710.....	15	S1183-1710.....	17	S8012-0014.....	117
R1028-0819.....	30, 31	S1111-1700-C.....	12	S1120-3710-C.....	15	S1183-1710-C.....	17	S8012-0015.....	117
R1028-2810.....	30, 31	S1111-1706.....	12	S1120-3810.....	15	S1183-1740.....	17	S8012-0016.....	117
R1028-2819.....	30, 31	S1111-1706-C.....	12	S1120-3810-C.....	15	S1183-1740-C.....	17	S8012-0017.....	117
R1028-3810.....	30, 31	S1111-1800.....	12	S1120-8710.....	15	S1183-1810.....	17	S8012-0018.....	117
R1028-3819.....	30, 31	S1111-1800-C.....	12	S1120-8710-C.....	15	S1183-1810-C.....	17	S8012-0019.....	117
R1028-5810.....	30, 31	S1111-1806.....	12	S1120-8810.....	15	S1183-1840.....	17	S8012-0020.....	117
R1028-5819.....	30, 31	S1111-1806-C.....	12	S1120-8810-C.....	15	S1183-1840-C.....	17	S8012-0021.....	117
R1081-0700.....	30, 31	S1111-1810.....	12	S1120-9710.....	15	S1602-2900.....	63	SG-C-L.....	138
R1081-0709.....	30, 31	S1111-1810-C.....	12	S1120-9710-C.....	15	S1602-4300.....	61	SG-C-M.....	138
R1081-2700.....	30, 31	S1111-1816.....	12	S1120-9810.....	15	S1605-0000.....	50	SG-C-S.....	138
R1081-2709.....	30, 31	S1111-1816-C.....	12	S1120-9810-C.....	15	S1605-0099.....	50	SG-C-XL.....	138
R1081-3700.....	30, 31	S1111-3000.....	13	S1121-2710.....	15	S1615-5500.....	50	SG-C-XS.....	138
R1081-3709.....	30, 31	S1111-3000-C.....	13	S1121-2710-C.....	15	S1615-5510.....	50	SG-N-L.....	140
R1081-5700.....	30, 31	S1111-3200.....	13	S1121-3810.....	15	S1615-5550.....	50	SG-N-M.....	140
R1081-5709.....	30, 31	S1111-3200-C.....	13	S1121-3810-C.....	15	S1615-5599.....	50	SG-N-S.....	140
R1128-0810.....	30, 31	S1111-3210.....	13	S1122-1730.....	15	S1620-2700.....	50	SG-N-XL.....	140
R1128-0819.....	30, 31	S1111-3210-C.....	13	S1122-1730-C.....	15	S1620-2799.....	50	SG-N-XS.....	140
R1128-2810.....	30, 31	S1111-3700.....	12	S1122-1830.....	15	S1830-9600.....	72	SG-P-L.....	139
R1128-2819.....	30, 31	S1111-3700-C.....	12	S1122-1830-C.....	15	S1830-9610.....	72	SG-P-M.....	139
R1128-3810.....	30, 31	S1111-3800.....	12	S1123-1710.....	15	S1833-9600.....	72	SG-P-S.....	139
R1128-3819.....	30, 31	S1111-3800-C.....	12	S1123-1710-C.....	15	S1833-9610.....	72	SG-P-XL.....	139
R1128-5810.....	30, 31	S1111-3810.....	12	S1123-1740.....	15	S1837-9600.....	72	SG-P-XS.....	139
R1128-5819.....	30, 31	S1111-3810-C.....	12	S1123-1740-C.....	15	S1837-9610.....	72	SG-T-L.....	141
R1181-0700.....	30, 31	S1111-6000.....	13	S1123-1810.....	15	S1884-2000.....	71	SG-T-M.....	141
R1181-0709.....	30, 31	S1111-6000-C.....	13	S1123-1810-C.....	15	S1884-2400.....	71	SG-T-S.....	141
R1181-2700.....	30, 31	S1111-6001.....	13	S1123-1840.....	15	S1884-2410.....	71	SG-T-XL.....	141
R1181-2709.....	30, 31	S1111-6001-C.....	13	S1123-1840-C.....	15	S1896-1000.....	71	SG-T-XS.....	141
R1181-3700.....	30, 31	S1111-6700.....	12	S1126-7710.....	15	S1896-1110.....	71	SU-INT-L.....	145
R1181-3709.....	30, 31	S1111-6700-C.....	12	S1126-7710-C.....	15	S1896-1800.....	71	SU-INT-M.....	145
R1181-5700.....	30, 31	S1111-6701.....	12	S1126-7810.....	15	S1896-2000.....	71	SU-INT-S.....	145
R1181-5709.....	30, 31	S1111-6701-C.....	12	S1126-7810-C.....	15	S1896-2110.....	71	SU-INT-XL.....	145
		S1111-6800.....	12	S1160-3700.....	17	S1896-2800.....	71	SU-INT-XS.....	145
►S		S1111-6800-C.....	12	S1160-3700-C.....	17	S1896-5000.....	71		
S1110-3000.....	13	S1111-6801.....	12	S1160-3800.....	17	S1896-5110.....	71	►X	
S1110-3000-C.....	13	S1111-6801-C.....	12	S1160-3800-C.....	17	S1896-5800.....	71	XC-INT-L.....	145
S1110-3700.....	12	S1111-6810.....	12	S1160-9700.....	17	S4026-5806.....	77	XC-INT-M.....	145
S1110-3700-C.....	12	S1111-6810-C.....	12	S1160-9700-C.....	17	S4026-1500.....	44	XC-INT-S.....	145
S1110-3800.....	12	S1111-6811.....	12	S1160-9800.....	17	S4751-0010.....	24	XC-INT-XL.....	145
S1110-3800-C.....	12	S1111-6811-C.....	12	S1160-9800-C.....	17	S4751-0050.....	24	XC-INT-XS.....	145
S1110-3810.....	12	S1112-1020.....	13	S1161-1700.....	17	S4751-0100.....	24		
S1110-3810-C.....	12	S1112-1020-C.....	13	S1161-1700-C.....	17	S4751-0250.....	24		
S1110-9000.....	13	S1112-1720.....	12	S1161-1720.....	17	S4751-0500.....	24		
S1110-9000-C.....	13	S1112-1720-C.....	12	S1161-1720-C.....	17	S4751-1000.....	24		
S1110-9700.....	12	S1112-1820.....	12	S1161-1800.....	17	S4751-2500.....	24		
S1110-9700-C.....	12	S1112-1820-C.....	12	S1161-1800-C.....	17	S4751-5000.....	24		
S1110-9800.....	12	S1112-1830.....	12	S1161-1820.....	17	S4756-2500.....	24, 44		
S1110-9800-C.....	12	S1112-1830-C.....	12	S1161-1820-C.....	17	S4756-5000.....	24, 44		
S1110-9810.....	12	S1113-1000.....	13	S1161-3700.....	17	S4761-0010.....	24		
S1110-9810-C.....	12	S1113-1000-C.....	13	S1161-3700-C.....	17	S4761-0050.....	24		
S1111-0000.....	13	S1113-1006.....	13	S1163-1700.....	17	S4761-0100.....	24		
S1111-0000-C.....	13	S1113-1006-C.....	13	S1163-1700-C.....	17	S4761-0250.....	24		
S1111-0006.....	13	S1113-1200.....	13	S1163-1800.....	17	S4761-0500.....	24		
S1111-0006-C.....	13	S1113-1200-C.....	13	S1163-1800-C.....	17	S4761-1000.....	24		
S1111-0200.....	13	S1113-1206.....	13	S1180-1710.....	17	S4761-2500.....	24		
S1111-0200-C.....	13	S1113-1206-C.....	13	S1180-1710-C.....	17	S4761-5000.....	24		
S1111-0206.....	13	S1113-1216.....	13	S1180-1740.....	17	S4765-2500.....	24, 44		
S1111-0206-C.....	13	S1113-1216-C.....	13	S1180-1740-C.....	17	S4765-5000.....	24, 44		
S1111-0210.....	13	S1113-1700.....	12	S1180-1810.....	17	S7100-0125.....	36		
S1111-0210-C.....	13	S1113-1700-C.....	12	S1180-1810-C.....	17	S7100-0220.....	36		
S1111-0700.....	12	S1113-1706.....	12	S1180-1840.....	17	S7100-0221.....	36		
S1111-0700-C.....	12	S1113-1706-C.....	12	S1180-1840-C.....	17	S7100-0510.....	36		
S1111-0706.....	12	S1113-1800.....	12	S1180-3710.....	17	S7100-1100.....	36		
S1111-0706-C.....	12	S1113-1800-C.....	12	S1180-3710-C.....	17	S7100-2200.....	36		
S1111-0800.....	12	S1113-1806.....	12	S1180-3810.....	17	S7108-0510.....	37		
S1111-0800-C.....	12	S1113-1806-C.....	12	S1180-3810-C.....	17	S7108-1100.....	37		
S1111-0806.....	12	S1113-1810.....	12	S1180-8710.....	17	S7108-3300.....	37		
S1111-0806-C.....	12	S1113-1810-C.....	12	S1180-8710-C.....	17	S7110-1000.....	36		
S1111-0810.....	12	S1113-1816.....	12	S1180-8810.....	17	S7112-0510.....	37		
S1111-0810-C.....	12	S1113-1816-C.....	12	S1180-8810-C.....	17	S7112-1100.....	37		
S1111-0816.....	12	S1120-1710.....	15	S1180-9710.....	17	S7112-3300.....	37		
S1111-0816-C.....	12	S1120-1710-C.....	15	S1180-9710-C.....	17	S7150-5000.....	36		
S1111-1000.....	13	S1120-1740.....	15	S1180-9810.....	17	S4765-2500.....	44		
S1111-1000-C.....	13	S1120-1740-C.....	15	S1180-9810-C.....	17	S4765-5000.....	44		

## Notes

[illegible]

## Notes



© March 2019. All rights reserved. Every effort has been made to ensure the content of this publication is correct. STARLAB can not take responsibility for any errors or omissions. All prices exclude VAT.

CytoOne, ErgoOne, PlateOne, TubeOne, RepeatOne, Starlab, TipOne, StarGuard are registered Trademarks and owned by **STARLAB Group**. MiniFuge PLUS, StarChill, StarPet Filler, StarRack, StarSeal, StarStack, StarStore, StarTags, StarTub, Rotator Mixer, Single & Dual Block Dry Bath, Vortex IR, TipOne Repeat and TwisStar are Trademarks of **STARLAB Group**.

Trademarks or registered Trademarks of other manufacturers or distributors are acknowledged as the property of their respective owners. Trademarks as mentioned in this publication include:

AirClean is a registered Trademark of **AirClean Systems**. Parafilm is a Trademark of **American National Can Company**. Microflex, XCEED, SUPRENO and SUPRENO PLUS are Trademarks of **Ansell**. Aurora Biomed Versa is a Trademark of **Aurora Biomed**. Biohit is a registered Trademark of **Biohit Oy**. Beckman Coulter, Beckman Biomek 1000, Beckman Biomek 2000, Beckman Biomek 3000, Beckman Biomek FX, Beckman Biomek NX, Beckman Multimek and Sagian are Trademarks of **Beckman Coulter**. Biotek is a Trademark of **BioTek Instruments**. LabPal, LabXpert and BMP21-LAB are Trademarks of **Brady**. Brand and Brand HandyStep are Trademarks of **BRAND**. CAPP and CappOrigami are Trademarks of **CAPP, DK**. Corning and Costar are Trademarks of **Corning Inc.** Faststepper is a registered trademark **Denville**. Duran is a registered Trademark of **Duran group**. Dynamic Devices Oasis LM is a Trademark of **Dynamic Devices**. Eppendorf and Multipipette are registered Trademarks of **Eppendorf AG**. Cyberlab, Distriman, Gilson and Pipetman are registered Trademarks of **Gilson Instruments**. SmartSpatula is a Trademark of **Heathrow Scientific**. Chemgene is a Trademark of **Medimark**. Nichiryo is a Trademark of **Nichiryo**. Oxford-Benchmate is a Trademark of **Oxford Group**. Perkin Elmer Evolution P3, Perkin Elmer Janus, Perkin Elmer MiniTrak, Perkin Elmer Multiprobe, Packard, PlateTrak and Perkin Elmer are Trademarks of **Perkin Elmer**. CAS-4200, Colibra, Corbett, Qiagen, QIAgility and Rosys Qiagen are Trademarks of **Qiagen**. Rainin LTS is a Trademark of **Rainin**. Ripette, Ripette Pro and Ripette genX are Trademarks of **Ritter**. Biohit and Mechanical Steppe are Trademarks of **Sartorius**. SciClone is a Trademark of **SciClone Pharmaceutical**. SMI is a Trademark of **SMI**. Stepmate is a Trademark of **Scilogex**. Socorex is a Trademark of **Socorex Instruments**. Cryo Secure is a Trademark of **STARLAB, CH**. Aquarius, Freedom EVO, Tecan Freedom SE, Genesis and MiniPrep are Trademarks of **Tecan**. Finnpiipette, Fisherbrand, Labsystems and Matrix are Trademarks of **Thermo Fisher**. Titertek is a Trademark of **Titertek**. Distel is a Trademark of **Tristel**. ChannelMate is a Trademark of **USA Scientific Inc.** Volac is a Trademark of **Volac**.



**Climate neutral**  
Print product  
ClimatePartner.com/11242-1901-1003



**RECYCLED**  
Paper made from  
recycled material  
**FSC® C011814**



[www.starlabgroup.com](http://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](mailto:info@starlab.de)  
[www.starlabgroup.com](http://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](mailto:info@starlab.de)  
[www.starlab.de](http://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](mailto:info@starlab.co.uk)  
[www.starlab.co.uk](http://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.fr](mailto:info@starlab.fr)  
[www.starlab.fr](http://www.starlab.fr)

**STARLAB S.r.l.**

Via Pinturicchio 1  
20133 Milano  
Italy

T: +39 02 7020 1040  
F: +39 02 7020 1033  
[info@starlab.it](mailto:info@starlab.it)  
[www.starlab.it](http://www.starlab.it)