

Starlab Cell Culture Products.

YOUR CELLS DESERVE THE BEST



Passionate for science.



Cell Culture Performance Ware.

YOUR CELLS DESERVE THE BEST

Starlab are liquid handling experts, recognised as a manufacturer and supplier of high quality plastic consumables for a wide range of applications in liquid handling, such as the TipOne® pipette tip system and ErgoOne® pipettes.

Our range of sterile products for Cell Culture carry on that tradition of quality with a range of cell culture performance ware and equipment for use in your daily cell culture workflows. Designed for optimal performance and manufactured to the highest quality standards, you can be sure to outfit your cells for true performance with Starlab cell culture products.

STARLAB QUALITY

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



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GuardOne® Workstation.



 starlab.click/guardone

IT ALL STARTS WITH A CLEAN AND CONTAMINATION-FREE ENVIRONMENT!

Starlab's GuardOne® Workstation provides the ideal workspace for sensitive and critical applications requiring a clean environment or protection from potential contamination by bacteria, DNA or RNA. The GuardOne® Workstation minimizes cross-contamination risk to protect your valuable samples and reagents¹⁾, thus helping to prevent both the time and cost involved by having to duplicate contaminated work.

Every aspect of GuardOne® has been designed with convenience in mind. All functions are controlled via the glove compatible, easy to use touchscreen. HEPA filter exchange and UV lamp exchange in just 2 minutes.

Suitable for non-pathogenic Class I cell culture applications.



Dead Air Workstation 32"

S8040-1000



Dead Air Workstation 48"

S8040-1001



Laminar Flow Workstation 32"

S8040-0000



Laminar Flow Workstation 48"

S8040-0001



- One-touch QuickStart / QuickStop settings
- Efficient UV_{245 nm} decontamination with timer function
- Efficient, class H14 HEPA filter with pre-filter provides ISO class 5 working environment²⁾
- Real-time airflow measurement²⁾
- ~9000 hour UV lamp
- Life-span monitoring of consumables
- Virtually maintenance-free
- Easy to clean

¹⁾GuardOne® is not designed to protect the operator.

²⁾Laminar-flow models only.

Bottle Top Filtration System.

TOGETHER OR ON THEIR OWN

Starlab's Bottle Top Filtration system is available as:

- complete full assembly units
- bottle top funnels only
- media bottles only

Robust and compact, the filtration system saves on valuable space and plastic waste, with minimal vacuum packaging to ensure cleanliness.

The PES membrane is ideal for the filtering of Fetal Bovine Serum (FBS) and other viscous solutions. The system is a perfect partner for your sterile filtration, media preparation and media storage needs.


Available in four volumes:

150 ml, 250 ml, 500 ml, 1000 ml



QUALITY, QUALITY, QUALITY

Starlab's Bottle Top Filtration System (full assembly units, funnels only and media bottles) is manufactured under ISO13485 and ISO9001 quality management systems, in a Class 100,000 clean room environment and printed with the batch number for easy traceability, as well as the expiry date.

Ordering Information					
		150 ml	250 ml	500 ml	1000 ml
Full Assembly Unit					
	0.22 µm PES membrane	CC8221-3226 Pack of 12	CC8221-4226 Pack of 12	CC8221-5226 Pack of 12	CC8221-6226 Pack of 12
	0.45 µm PES membrane	CC8221-3456 Pack of 12	CC8221-4456 Pack of 12	CC8221-5456 Pack of 12	CC8221-6456 Pack of 12
Funnel Tops only					
	0.22 µm PES membrane	CC8222-3226 Pack of 24	CC8222-4226 Pack of 24	CC8222-5226 Pack of 24	CC8222-6226 Pack of 24
	0.45 µm PES membrane	CC8222-3456 Pack of 24	CC8222-4456 Pack of 24	CC8222-5456 Pack of 24	CC8222-6456 Pack of 24
Media Bottles only					
	Bottle & Cap	CC8221-3000 Pack of 24	CC8221-4000 Pack of 24	CC8221-5000 Pack of 24	CC8221-6000 Pack of 24

 starlab.click/filtration

THE PERFECT PARTNER

Starlab Aspirator, see pages 20 & 21



KEY BENEFITS

- ☑ Crystal clear polystyrene funnel top and bottle base
- ☑ Funnels with PES membrane with 0.22 µm or 0.45 µm pore size
- ☑ GL45 thread compatible funnels
- ☑ Temperature use range: -20 °C to + 50 °C
- ☑ Sterile (SAL 10⁻⁶) to ISO11137
- ☑ 3-year shelf life
- ☑ Certified RNase, DNase and Pyrogen free
- ☑ Certified non-cytotoxic
- ☑ Certified heavy metal free
- ☑ Reduced plastic vacuum packaging



150 ml



250 ml



500 ml









1000 ml

Syringe Filters.

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.

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



starlab.click/syringefilters

KEY BENEFITS

- ☑ Colour coded for easy membrane type identification
- ☑ High bubble point membrane provides tighter pore size for greater security
- ☑ High burst pressure ensures safe operation
- ☑ Large filtration surface area allows you to filter your sample more easily
- ☑ Low hold-up volume provides maximum recovery of your solution
- ☑ Surfactant-free membrane for cleanliness in downstream applications
- ☑ Sterile (SAL 10⁻⁶)

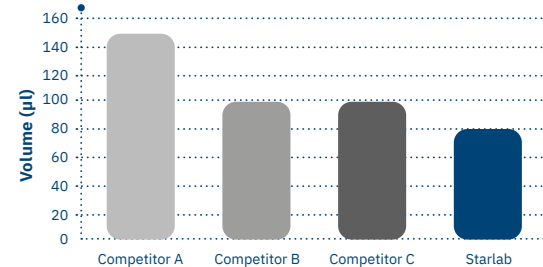


Individually wrapped in plastic-paper blister packs with Lot No. and sterile validity date printed on every pack.



Supplied in convenient, dispenser style boxes

Up to nearly half the hold-up volume of other syringe filters.



Tested against market-leading syringe filters.

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

ErgoOne® FAST Pipette Controller.

FLEXIBLE, ACCURATE, SAFE TRANSFER

ERGONOMY MEETS MODERNITY

Every aspect of the ErgoOne® FAST has been developed with ergonomics in mind.

ErgoOne® FAST is one of the lightest pipette controllers on the market. It is designed for comfort and balances perfectly in the hand for fatigue-free pipetting, even during long periods of use.

Description	Art. No.
ErgoOne® FAST pipette Controller ¹⁾	S7166-0010
<small>¹⁾Supplied with battery, power supply, 0.2 µl filter, 0.45 µl filter and a wall mount. 2-year warranty.</small>	

 starlab.click/ergoonefast



WATCH VIDEO

KEY BENEFITS

- ☑ Lightweight and ergonomic
- ☑ Designed to balance perfectly in the hand for maximum comfort
- ☑ Smooth operation via pressure sensitive control buttons
- ☑ Fast - fills a 25 ml pipette in less than 4 seconds!
- ☑ Longlife battery provides ~2000 x 25 ml aspiration cycles on full charge
- ☑ Battery life indicator
- ☑ Battery maintains constant pipetting speed that does not diminish as battery charge declines
- ☑ Can be recharged during use
- ☑ Use with all glass or plastic pipettes 1.0 ml to 100 ml



Pressure responsive speed controls



Autoclavable aspiration cone and silicone pipette holder ensures a secure seal for your liquids while the filter protects your pipette



Traffic light battery life indicator



Easy to replace battery



Handy benchtop support allows you to place the controller on the bench or hood floor without risk of contamination

**ErgoOne® FAST
Benchtop Support**

Art. No: P7166-6306

Serological Pipettes.

SEROLOGICAL PIPETTES

Polystyrene pipettes for sterile serological and tissue culture applications. Colour-coding on both the pipettes and the packaging provides easy volume identification.

Volume	Colour Coding	Pack Size	Art. No.
1.0 ml	Yellow	500	E4860-0001
2.0 ml	Green	500	E4860-0002
5.0 ml	Blue	200	E4860-0005
10 ml	Orange	200	E4860-0010
25 ml	Red	150	E4860-0025
50 ml	Purple	100	E4860-0050
100 ml	Pink	50	E4860-1100

 startlab.click/serologicalpipettes



Lot number and expiry date printed on every aspiration and serological wrap



KEY BENEFITS

- ☑ Accuracy $\pm 2\%$
- ☑ Colour coded, individual paper-plastic peel-back wraps with printed lot number and expiry date
- ☑ Pipettes are colour coded for easy volume identification
- ☑ Black printed, easy to read ascending and descending graduations
- ☑ Bidirectional graduations on pipettes 10 ml and above
- ☑ Gamma sterilised to SAL 10^{-6} (ISO 11137)¹
- ☑ Certified RNase, DNase, Pyrogen and latex free¹
- ☑ Non-cytotoxic and non-haemolytic USP Class VI Polystyrene¹
- ☑ ISO9001 and ISO13485 manufactured
- ☑ Supplied in convenient, dispenser style boxes



Serological pipettes are supplied in convenient dispenser-style boxes for easy access when stacked



ErgoOne® Pipettes.

ErgoOne® pipettes combine researcher-requested features with the latest ergonomic principles to provide optimum performance. ErgoOne® provides trusted pipetting accuracy and precision combined with a stylish ergonomic design that will keep your thumb happy.

KEY BENEFITS

- ✓ Ergonomic design
- ✓ Low maintenance
- ✓ Volume lock
- ✓ Accuracy and precision you can trust
- ✓ Fully autoclavable
- ✓ Universal tip fit



WATCH VIDEO



 starlab.click/manualpipettes

TipOne® Sterile Filter Tips.

Protect your samples against unwanted contamination with TipOne® filter tips. 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.



STERILE RACKED

- ✓ Wafer locks securely into rack for stability during pipetting
- ✓ Stackable
- ✓ Reusable with TipOne® refills
- ✓ Recyclable



TIPONE VIDEO



STERILE REFILLS

- ✓ Economical, plastic-saving alternative to racked filter tips
- ✓ Fully enclosed refill means tip sterility is never compromised
- ✓ Clear refill shells made from 100% recycled plastic
- ✓ Recyclable



REFILL VIDEO

 starlab.click/tipone

For information on the **TipOne® Recycling service** go to: starlab.click/recycling

Wide Orifice Pipette Tips.

ORDER INFORMATION

All tips are certified and natural in colour. Tips shown approx. actual size.



200 µl Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, FinnpiPETTE®, MLA®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®

Pack Type	Sterile	Pack Size	Article No.
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Bag	No	1000	I1011-8000
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200 µl Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Brand®, CAPP®, Eppendorf®, FinnpiPETTE®, Labnet®, Matrix®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, VWR®

Bag	No	1000	E1011-5000
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96-Tip Rack	No	10 x 96	E1011-5100
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96-Tip Rack	Yes	10 x 96	E1011-5110
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200 µl Graduated Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Costar®, Eppendorf®, FinnpiPETTE®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, Socorex®, StarPet, StarPet E, Titertek®, Volac®

Bag	No	1000	E1011-8000
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96-Tip Rack	No	10 x 96	E1011-8400
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96-Tip Rack	Yes	10 x 96	E1011-8410
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200 µl Filter Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Brand®, CAPP®, Eppendorf®, FinnpiPETTE®

96-Tip Rack	Yes	10 x 96	E1011-8618
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1000 µl Graduated Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Costar®, Eppendorf®, FinnpiPETTE®, Fisherbrand®, Nichiryo®, Oxford-Benchmate®, Rainin®, SMI®, Socorex®, StarPet, Titertek®, Volac®

Bag	No	1000	E1011-9000
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1000 µl Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Brand®, CAPP®, Eppendorf®, FinnpiPETTE®

100-Tip Rack	No	10 x 100	E1011-9601
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100-Tip Rack	Yes	10 x 100	E1011-9611
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1000 µl Filter Tip / Wide Orifice

For use with: ErgoOne®, Gilson®, Biohit®, Brand®, CAPP®, Eppendorf®, FinnpiPETTE®

100-Tip Rack	Yes	10 x 100	E1011-9618
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LET IT FLOW

Pipette tips with a wide opening (wide orifice) make it easier for liquids to flow in and out of the tip. A wider opening minimises shear forces and protects sensitive samples such as DNA/RNA samples and cells. It also makes it easier to work with highly viscous liquids such as pure glycerol or Triton X-100.



CytoOne® Dishes.



TESTED FOR QUALITY

Produced in cleanroom conditions, CytoOne® dishes are put through stringent testing. Culture tests are performed to assure proper cell attachment and growth. The dishes are tested for wettability and flatness, and visually inspected to eliminate defects and scratches. CytoOne® dishes are available with tissue culture (TC) treatment for optimum cell attachment and growth, or non-treated for suspension cultures.

KEY BENEFITS

- ✓ Vented lids improve gas exchange
- ✓ Stacking rings with vented design for thermal equalisation
- ✓ Easy open sleeves in convenient small pack sizes
- ✓ Optical clarity provide distortion free microscopy
- ✓ Sturdy flat bases resist bowing and warping
- ✓ Untreated lids to minimise condensation
- ✓ Gamma sterilised (SAL 10⁻⁵)
- ✓ Certified RNase, DNase, DNA and pyrogen free



starlab.click/dishes

Description	Pack Size	Art. 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 ²	35 mm	2.0 ml
60 x 15 mm	21 cm ²	52 mm	5.0 ml
100 x 20 mm	55 cm ²	85 mm	10 ml
150 x 20 mm	149 cm ²	138 mm	30 ml



The lids of the 150 mm dishes have four ergonomically placed grip tags (circled above) for easier handling



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



Customers have reported successful use of many cell lines and cell types with CytoOne® products:

starlab.click/cyto-cell-lines

CytoOne® Multiwell Plates.



PREMIUM PLATES

CytoOne® plates have non-reversible lids with condensation rings to minimise contamination, and are vented to improve gas exchange. Lids also feature support tabs that minimise contact with the bench when set aside or propped open.

CytoOne® plates are suitable for both single-cell isolation work and upscaling, and available with tissue culture (TC) treatment for optimum cell attachment and growth, or non-treated ideal for hybridoma or lymphocyte culture.

QUALITY ASSURED

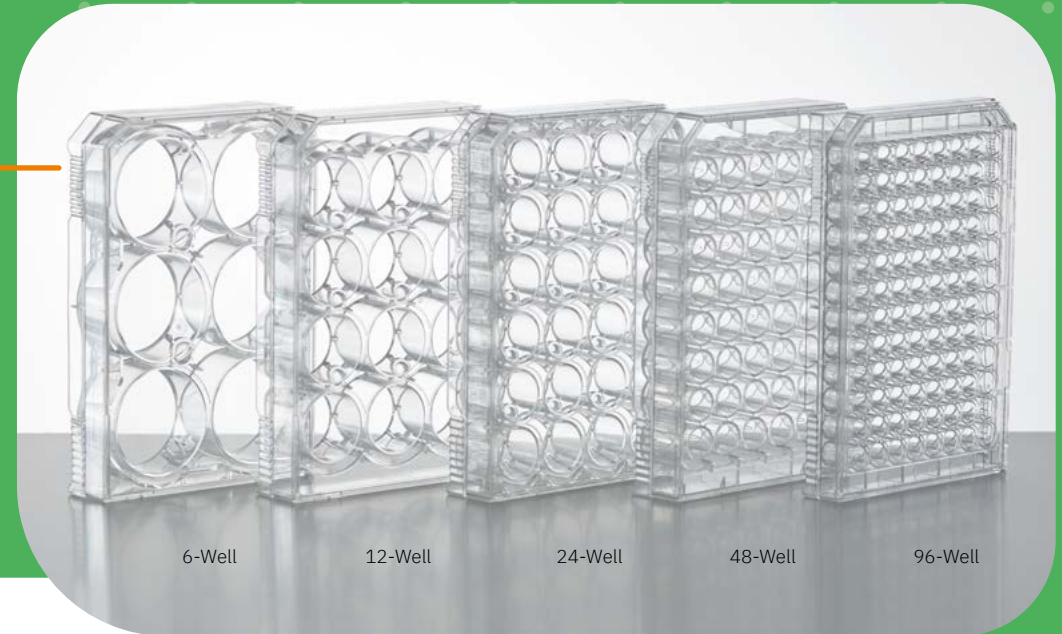
All plates are manufactured from crystal clear premium grade, non-toxic virgin polystyrene and are supplied individually wrapped with the lot number on the packaging. Produced in a cleanroom environment, CytoOne® products are put through stringent testing. Plates are tested for wettability and flatness, and visually inspected to eliminate defects and scratches. Culture tests are performed on treated plates to assure proper cell attachment and growth.



Customers have reported successful use with many cell lines and cell types with CytoOne® products:

starlab.click/cyto-cell-lines

Four vents on the skirt of each plate improves gas exchange, and reduces condensation and surface tension between stacked plates



KEY BENEFITS

- ✔ Complete 360° chimney wells prevents cross-contamination and provides uniform temperature transfer across all wells (see next page for more info)
- ✔ Vented skirt reduces condensation and surface tension between stacked plates
- ✔ Frosted writing surface on lid
- ✔ Optical clarity provides distortion-free microscopy
- ✔ Moulded alpha-numeric matrix
- ✔ Gamma sterilised (SAL 10⁻⁵) and certified RNase, DNase, DNA and Pyrogen free



starlab.click/multiwellplates

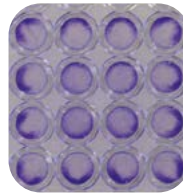


MINIMISING THE 'EDGE EFFECT' WITH CYTOONE®

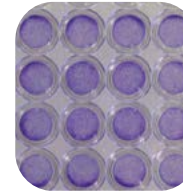
CytoOne® plates have chimney wells with a complete 360° open channel around each well. Filling the channels with medium during incubation helps reduce clumping of cells towards the edges, resulting in a more uniform cell layer. Tests were carried out on six other brands of 96-well tissue culture plates which were seeded and incubated under the same conditions as a CytoOne® Plate. All displayed an edge effect which could affect the integrity of our your data. Download the Product Data Sheet for full details:

starlab.click/edgeeffect

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

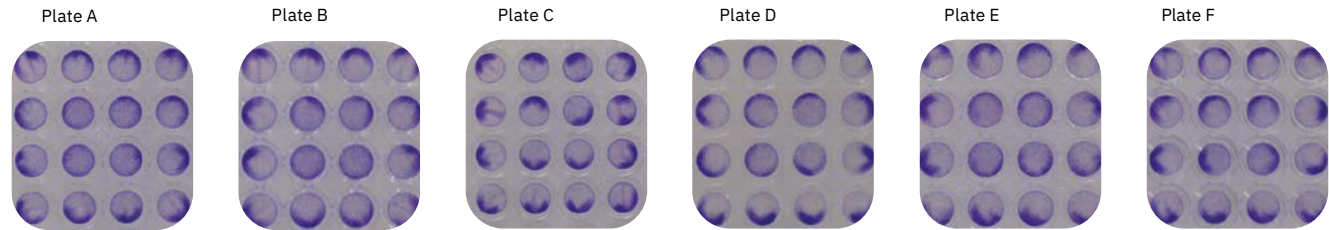


Cell growth in a CytoOne® plate with the channels filled with DMEM medium shows a marked reduction in 'edge effect'.



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



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

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

Technical specifications			
Number of wells	Growth area	Working volume	Well diameter
6 wells	9.6 cm ²	2.0 ml	3.46 cm
12 wells	3.8 cm ²	1.5 ml	2.21 cm
24 wells	1.9 cm ²	1.0 ml	1.55 cm
48 wells	0.76 cm ²	0.5 ml	0.98 cm
96 wells	0.32 cm ²	0.2 ml	0.64 cm



WATCH VIDEO

Complete 360° chimney well design on all CytoOne® plates prevents cross-contamination and provides uniform temperature transfer across all wells, resulting in a more uniform cell layer. Watch our video to see how CytoOne® plates are designed to prevent the edge effect so you can use all 96-wells of a plate.

CytoOne® Flasks with Vented Filter Caps.

VENTED CAPS FOR GAS EXCHANGE

Vented filter caps have a 0.2 µm hydrophobic membrane to exclude bacteria and fungal contaminants. Choose tissue culture (TC) treated for optimum cell attachment and growth or non-treated for hybridoma and suspension cultures. The T-25, T-75, and T-150 flasks have traceable lot numbers etched into the base.

QUALITY ASSURANCE

CytoOne® is produced in a cleanroom environment and put through stringent testing. Culture tests are performed on treated flasks to assure proper cell attachment and growth. Every flask is pressure tested for leak-free assurance, and the flasks are tested for wettability and flatness, as well as visually inspected to eliminate defects and scratches.

Customers have reported successful use with many cell lines and cell types with CytoOne® products:

starlab.click/cyto-cell-lines

KEY BENEFITS

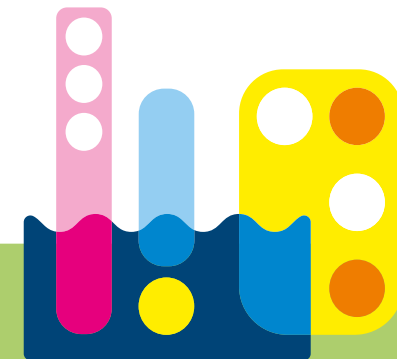
- ✓ All flasks 100% pressure tested for leak-free assurance
- ✓ Stacking rims with vented design for thermal equalisation
- ✓ Anti-tilt skirts and base bars improve stability
- ✓ Wide necks provide easy access while minimising contamination
- ✓ Convenient moulded graduations
- ✓ Frosted writing surfaces
- ✓ Gamma sterilised (SAL 10⁻⁵)
- ✓ Certified RNase, DNase, DNA and Pyrogen free



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











starlab.click/flasks



Ordering information

CytoOne®

Flasks with Vented Filter Caps

Description	Pack Size	Art. No.
TC Treated		
 T-25 CytoOne® Flask, Vented	30 x 10	CC7682-4825
 T-75 CytoOne® Flask, Vented	20 x 5	CC7682-4875
 T-150 CytoOne® Flask, Vented	8 x 5	CC7682-4815
 T-225 CytoOne® Flask, Vented	5 x 5	CC7682-4822
Non-Treated		
 T-25 CytoOne® Flask, Vented	30 x 10	CC7672-4825
 T-75 CytoOne® Flask, Vented	20 x 5	CC7672-4875
 T-150 CytoOne® Flask, Vented	8 x 5	CC7672-4815
 T-225 CytoOne® Flask, Vented	5 x 5	CC7672-4822



starlab.click/flasks



Non-treated flasks can be identified by their white caps



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

CERTIFIED



Technical specifications

Flask type	Growth area	Neck	Working volume	Max. volume without neck	Max. volume with neck
T-25	25 cm ²	Canted	5.0 ml	70 ml	75 ml
T-75	75 cm ²	Canted	20 ml	279 ml	290 ml
T-150	150 cm ²	Canted	30 ml	591 ml	603 ml
T-225	225 cm ²	Angled	60 ml	1,006 ml	1,024 ml

CytoOne® Flasks with 2-Position Plug Seal Caps.

MANUAL VENTING OR AIRTIGHT SEAL

The two-position plug seal cap lets you choose secure manual venting or an airtight seal. The T-25, T-75, and T-150 flasks have traceable lot numbers etched into the base. Choose tissue culture (TC) treated for optimum cell attachment and growth or non-treated for hybridoma and suspension cultures.

QUALITY ASSURANCE

CytoOne® is produced in a cleanroom environment and put through stringent testing. Culture tests are performed on treated flasks to assure proper cell attachment and growth. Every flask is pressure tested for leak-free assurance, and the flasks are tested for wettability and flatness, as well as visually inspected to eliminate defects and scratches.

KEY BENEFITS

- ✓ 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
- ✓ Convenient moulded graduations
- ✓ Frosted writing surfaces
- ✓ Gamma sterilised (SAL 10⁻⁵)
- ✓ Certified RNase, DNase, DNA and Pyrogen free



 starlab.click/flasks



CytoOne® two-position plug seal caps allow you to choose secure manual venting or an airtight seal









Customers have reported successful use with many cell lines and cell types with CytoOne® products:

starlab.click/cyto-cell-lines

Ordering information

CytoOne®

Flasks with 2-Position Plug Seal Caps

Description	Pack Size	Art. No.
TC Treated		
 T-25 CytoOne® Flask,	30 x 10	CC7682-4325
 T-75 CytoOne® Flask,	20 x 5	CC7682-4175
 T-150 CytoOne® Flask,	8 x 5	CC7682-4415
 T-225 CytoOne® Flask,	5 x 5	CC7682-4225
Non-Treated		
 T-25 CytoOne® Flask,	30 x 10	CC7672-4325
 T-75 CytoOne® Flask,	20 x 5	CC7672-4175
 T-150 CytoOne® Flask,	8 x 5	CC7672-4415
 T-225 CytoOne® Flask,	5 x 5	CC7672-4225

 starlab.click/flasks



Non-treated flasks can be identified by their white caps



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



Technical specifications

Flask type	Growth area	Neck	Working volume	Max. volume without neck	Max. volume with neck
T-25	25 cm ²	Canted	5.0 ml	70 ml	75 ml
T-75	75 cm ²	Canted	20 ml	279 ml	290 ml
T-150	150 cm ²	Canted	30 ml	591 ml	603 ml
T-225	225 cm ²	Angled	60 ml	1,006 ml	1,024 ml

Erlenmeyer Flasks.

DESIGNED TO BE REUSED

Starlab's Erlenmeyer flasks are ideal for the cultivation of bacteria, yeast and fungi, as well as plant and animal cells in suspension.

User convenience and flexibility is provided by the vented caps which have an integral 0.22 µm PTFE membrane, making these flasks suitable for both vented and non-vented applications.

Better still, the flasks are autoclavable and designed for reuse. They have been **tested to withstand at least 10 autoclave cycles!**

Available in volumes 125 ml to 3000 ml with a flat or baffled based to suit your application needs.

KEY BENEFITS:

- ✓ Dual function, vented caps provide sterile air exchange or a tight seal
- ✓ 0.22 µm PTFE cap membrane
- ✓ GL45 thread compatible funnels
- ✓ Compatible with standard shaking incubator tables and clamps
- ✓ Sterility level (SAL 10⁻⁶) fulfills the highest demands
- ✓ Certified RNase, DNase, DNA and Pyrogen free
- ✓ Tested to withstand at least 10 autoclave cycles
- ✓ Shatterproof
- ✓ Visibly clearer than glass, with no etches to prevent the removal of chemical residues







DUAL-FUNCTION CAPS

Polypropylene caps with a 0.22 µm PTFE membrane, ideal for both aerobic and anaerobic cultures. Remove the top section to allow sterile exchange, and then replace when ready. No contamination risk or hassle of switching caps. You need only stock one flask type for all cultures.

CERTIFIED



Description	Pack Size	Art. No.
FLAT BASE		
125 ml Erlenmeyer Flask, Flat Base	24	E5000-1012
250 ml Erlenmeyer Flask, Flat Base	12	E5000-1025
500 ml Erlenmeyer Flask, Flat Base	12	E5000-1050
1000 ml Erlenmeyer Flask, Flat Base	6	E5000-1100
2000 ml Erlenmeyer Flask, Flat Base	6	E5000-1200
3000 ml Erlenmeyer Flask, Flat Base	3	E5000-1300
BAFFLED BASE		
125 ml Erlenmeyer Flask, Baffled Base	24	E5001-1012
250 ml Erlenmeyer Flask, Baffled Base	12	E5001-1025
500 ml Erlenmeyer Flask, Baffled Base	12	E5001-1050
1000 ml Erlenmeyer Flask, Baffled Base	6	E5001-1100
2000 ml Erlenmeyer Flask, Baffled Base	6	E5001-1200
3000 ml Erlenmeyer Flask, Baffled Base	3	E5001-1300

TECHNICAL SPECIFICATIONS*						
						
Flask volume	125 ml	250 ml	500 ml	1000 ml	2000 ml	3000 ml Fernbach Style
Recommended fill volume	31 – 50 ml	62 – 100 ml	125 – 200 ml	250 – 400 ml	500 – 800 ml	750 – 1200 ml
Base diameter	71 mm	83 mm	105 mm	137 mm	165 mm	230.5 mm
Height (w/o cap)	105 mm	133 mm	156 mm	204 mm	265 mm	250 mm
Height (with cap)	114.3 mm	142.3 mm	165.3 mm	215.8 mm	276.8 mm	260 mm
Sterility level / shelf life	SAL 10 ⁻⁶ / 5 years					
Cap air flow	3 L/min/cm ²					
Recommended rotation speed	0 - 200 rpm					
Temperature range	Flasks: -40 °C to 125 °C / Caps: 0 °C to 125 °C					
Autoclavable	Yes (caps and flasks, at least 10 cycles). Please refer to instructions.					
*Specifications relate to both flat and baffled base flasks. All baffled flasks have four baffles on the base.						

 starlab.click/erlenmeyers



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 (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. You can also use the Aspirator as a mobile vacuum source for sterile filtration and solid phase extraction.



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.

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

Technical specifications

Maximum pumping speed	16.7 l/min
Adjustable range of vacuum	150 – 850 mbar
Maximum permissible inlet/outlet pressure	1.1 bar
Noise level	45 dB(A)
Permissible ambient temperature	10 – 40 °C
Permissible relative humidity	38 – 85 %
Maximum power consumption	40 W
Power supply	230 V + 10 %, 50/60 Hz
Weight	7.3 kg
Dimensions (W x D x H)	408 x 194 x 500 mm

THE IMPORTANCE OF ACCESSORIES! HERE'S A GUIDE OF WHAT TO BUY.

To add an exchange bottle:

N2400-9010 (fast coupling N2400-9008 also recommended)

To have a self-sealing system applicable for biological risks:

N2400-9008 plus N2400-9009

N2400-9000¹⁾ includes everything you need to get started: Aspirator, 4 Litre Polypropylene Bottle with Protection Filter and Inlet Pipe, Hand Controller, including 2.5 m Tubing, Wall Mount, Adapter for Pipettes, and an Adapter for Pipette Tips.

[WATCH VIDEO](#)

To have a benchtop stand for your Hand Controller:

N2400-9004

To have a fast coupling system:

N2400-9008 plus N2400-9009.

To use stronger chemicals (eg. sodium hypochlorite) or staining solutions:

N2400-9012 plus N2400-9013

To work with cell culture plates:

N2400-9003

To add a second Hand Controller:

N2400-9001 plus N2400-9006 or N2400-9008

To have a tip ejector for your Hand Controller:

N2400-9002

To have easy access to your under bench Aspirator

N2400-9014



Description

Aspirator

Art. No.

N2400-9000

¹⁾ Aspirator is supplied with everything you need to get started. 1-year warranty.

Accessories



Hand Controller for Aspirator. Includes one Adapter for Pipettes, one Adapter for Pipette Tips, a Wall Mount, and 2.5 m Tubing.

N2400-9001



1-Channel Tip Adapter for Hand Controller

N2400-9002



8-Channel Tip Adapter for Hand Controller

N2400-9003



Stand for Hand Controller

N2400-9004



Tubing for Hand Controller (2.5 m)

N2400-9005



Connection Kit for Second Hand Controller

N2400-9006



Protection Filter with Connective Tubing

N2400-9007



Quick Coupling: Hand Controller to Bottle

N2400-9008



Quick Coupling: Bottle to Pump

N2400-9009



4 Litre Polypropylene Bottle with Filter and Inlet Pipe

N2400-9010



4 Litre Polypropylene Bottle with Screw Cap

N2400-9011



2 Litre Glass Bottle with Filter and Inlet Pipe

N2400-9012



Adapter for 2 Litre Glass Bottle

N2400-9013



Mobile Underframe

N2400-9014



Tool for Diaphragm Change

N2400-9015



Adapter for Pipettes

N2400-9016

Aspiration pipettes.

ASPIRATION PIPETTES

Use for vacuum aspirating procedures or the transfer of fluids where volume accuracy is not a requirement.



Volume	Pack Colour	Pack Size	Art. No.
2.0 ml	Black	500	E4861-0002
5.0 ml	Blue	200	E4861-0005
10 ml	Orange	200	E4861-0010

 starlab.click/aspirationpipettes

Lot number and expiry date printed on every aspiration and serological wrap



Aspiration pipettes are supplied in convenient dispenser-style boxes for easy access when stacked



KEY BENEFITS

- ✓ Accuracy $\pm 2\%$
- ✓ Colour coded, individual paper-plastic peel-back wraps with printed lot number and expiry date
- ✓ Gamma sterilised to SAL 10^{-6} (ISO 11137)¹
- ✓ Certified RNase, DNase, Pyrogen and latex free¹
- ✓ Non-cytotoxic and non-haemolytic USP Class VI Polystyrene¹
- ✓ ISO9001 and ISO13485 manufactured
- ✓ Supplied in convenient, dispenser style boxes

Cell Scrapers.

GENTLE HARVESTING

Gently raise / lift the cells from the surface with Starlab cell scrapers. Pivoting blades pivot the full 360° around the handle for easy access to flask corners. Flexible ABS handles provide easy handling inside flasks.



Ordering Information & Specifications

			
Article No.	CC7600-0220	CC7600-0250	CC7600-0300
Pack Size	100	100	150
Length	220 mm	250 mm	300 mm
Handle style	Straight	Angled	Straight
Handle material	Flexible ABS	Flexible ABS	Flexible ABS
Blade type	Fixed	Pivoting	Pivoting
Blade size	11 mm	10 mm	20 mm
Blade material	Silicone	Silicone	Polyethylene
For use with	Plates, dishes	Small flasks	Large flasks
Certified	RNase, DNase, DNA & Pyrogen free	RNase, DNase, DNA & Pyrogen free	RNase & DNase free
Gamma sterilised	SAL 10 ⁻⁵	SAL 10 ⁻⁵	SAL 10 ⁻⁶

Note: All cell scrapers are supplied individually-wrapped.

 starlab.click/cellscrapers

Cell Strainers.



Cell Strainers with three different mesh sizes are designed to fit perfectly into 50 ml centrifuge tubes

UNIFORMITY

Strain your stem and primary cell samples with Starlab's Cell Strainers. Available in three sizes, the nylon mesh provides you with uniform cell suspensions from tissue and preparation of flow cytometry samples.

KEY BENEFITS

- ☑ Uniform nylon mesh size of 40 µm, 70 µm, and 100 µm (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 (SAL 10⁻⁶)
- ☑ Individually wrapped

Description	Pack Size	Article No.
 40 µm Cell Strainer, Blue (Sterile)	50	CC8111-0042
 70 µm Cell Strainer, White (Sterile)	50	CC8111-0072
 100 µm Cell Strainer, Yellow (Sterile)	50	CC8111-0102

 starlab.click/cellstrainer

15 ml & 50 ml Centrifuge Tubes.

DESIGNED FOR CELLS

Starlab's 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).

Maximum centrifugation rates

15 & 50 ml conical: 12,000 x g
50 ml skirted: 6,000 x g



Extra moulded graduations!
15 ml Conical Tube: 0 – 1.0 ml
50 ml Conical Tube: 0 – 3.0 ml

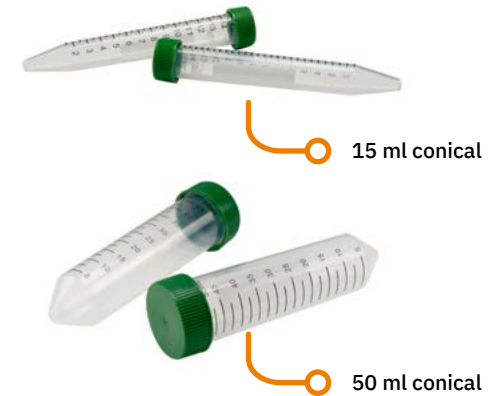


Tubes shown with rack E2396-1550. Rack for 15 ml tubes also available.

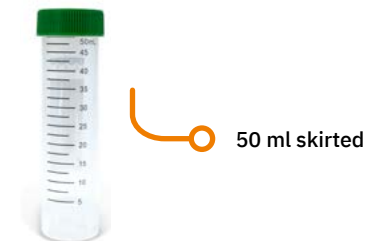
KEY BENEFITS

- ☑ Clear polypropylene tubes with HDPE screw caps
- ☑ Easy to read, black graduations
- ☑ Graduated to full 15 ml and 50 ml volumes
- ☑ White writing surface
- ☑ Autoclavable at 121 °C
- ☑ Freezable to -80 °C
- ☑ Shorter length, 2.5 turn screw caps with sealing ring prevents leaking
- ☑ Perfect for the centrifugation of cells: USP Class VI, non-cytotoxic and sterile (SAL 10^{-6}) material
- ☑ Heavy metal free
- ☑ Certified RNase, DNase, DNA and Pyrogen free

Description	Pack Size	Art. No.
Conical Tubes		
15 ml Centrifuge Tube, Conical (Sterile), Loose	20 x 25	E1415-0100
15 ml Centrifuge Tube, Conical (Sterile), Racked	20 x 25	E1415-0700
50 ml Centrifuge Tube, Conical (Sterile), Loose	20 x 25	E1450-0100
50 ml Centrifuge Tube, Conical (Sterile), Racked	20 x 25	E1450-0700
Skirted Tubes		
50 ml Centrifuge Tube, Skirted (Sterile), Loose	20 x 25	E1450-0400
Dimensions inc. cap (HxØ): 15 ml: 122.6 x 22 mm. 50 ml: 117 x 34.5 mm. 50 ml skirted: 120 x 34.5 mm.		



Racked tubes supplied in easy to recycle cardboard trays



50 ml skirted

 starlab.click/centrifuge tubes

Cryogenic Vials.

KEY BENEFITS

- ☑ 100% polypropylene tubes
- ☑ supplied in convenient pouches that stand on the bench
- ☑ For storage down to -196 °C; **should only be used in the gas phase of liquid nitrogen**
- ☑ Internal threaded vials have a silicone seal in the cap for the highest possible impermeability
- ☑ White writing area
- ☑ Highly visible black graduations at 100 µl increments
- ☑ Skirted vials lock into racks for easy single-handed work
- ☑ Coloured cap inserts available separately to colour code samples
- ☑ Sterile (SAL 10⁻⁶)
- ☑ Certified RNase, DNase, DNA and Endotoxin free

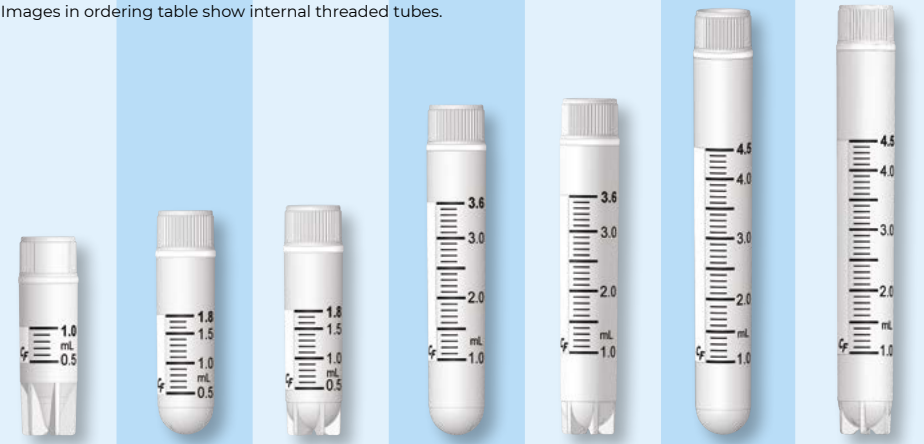


Supplied in convenient, resealable, self-standing pouches

starlab.click/cryovials

Cryogenic Vials

Images in ordering table show internal threaded tubes.



	Volume:	1.0 ml	1.8 ml	1.8 ml	3.6 ml	3.6 ml	4.5 ml	4.5 ml
	Base:	Skirted	Conical	Skirted	Conical	Skirted	Conical	Skirted
 <p>EXTERNAL Threaded Tube Self-Sealing Cap, Sterile</p>	E3090-6212	E3090-6321	E3090-6222					E3090-6242
	Pack Size: 10 x 50 Height: 41mm	Pack Size: 10 x 50 Height: 43mm	Pack Size: 10 x 50 Height: 48mm	n/a	n/a	n/a	Pack Size: 6 x 50 Height: 91mm	
 <p>INTERNAL Threaded Tube, Silicone Seal in Cap Sterile</p>	E3110-6112	E3110-6121	E3110-6122	E3110-6131	E3110-6132	E3110-6141	E3110-6142	
	Pack Size: 10 x 50 Height: 42mm	Pack Size: 10 x 50 Height: 46mm	Pack Size: 10 x 50 Height: 49mm	Pack Size: 8 x 50 Height: 70mm	Pack Size: 8 x 50 Height: 71mm	Pack Size: 6 x 50 Height: 90mm	Pack Size: 6 x 50 Height: 91mm	

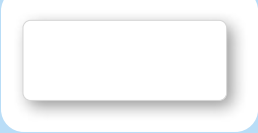
Coloured Cap Inserts



E1494-6001 Blue Pack: 500	E1494-6002 Green Pack: 500	E1494-6003 Orange Pack: 500	E1494-6004 Red Pack: 500	E1494-6104 Pink Pack: 500	E1494-6005 Violet Pack: 500	E1494-6006 Yellow Pack: 500	E1494-6007 Brown Pack: 500	E1494-6108 Grey Pack: 500	E1494-6009 White Pack: 500	E1494-6099 Mixed Pack: 500
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NOTE: The coloured cap inserts fit all cryovials **except E3090-6321**

Cryogenic Accessories.



CRYOGENIC LABELS

Pre-cut labels for ultra-low temperature use down to -196 °C. Use on polypropylene, glass, polycarbonate and metal. Labels must be applied to dry, unfrozen sample vials at room temperature.

Label size: 38 x 15 mm.

StarTag Cryo

Art. No: **E9189-3009**
Roll of 1000 labels

starlab.click/labelling



STORAGE CANES

Storage canes for use with 5 x 1.2 / 2.0 ml cryogenic vials.

Storage Canes

Art. No: **E2005-5000**
Pack of 12

starlab.click/storagecanes



CRYOGENIC STORAGE BOXES

Polycarbonate boxes with fixed dividers. Transparent, one-way fit lift-off lid with printed reference grid.

WxDxH: 130 x 130 x 53 mm

81-place box, white

Art. No: **I2381-2305**
Pack of 5

100-place box, white

Art. No: **I2510-5005**
Pack of 5

starlab.click/cryogenicstorage



CRYO LOCK RACKS

50-place polypropylene rack with a 5x10 array for use with skirted cryogenic vials

WxDxH: 200 x 100 x 25 mm

Lock Rack, Blue

Art. No: **E2350-4001**
Pack of 4

Lock Rack, Red

Art. No: **E2350-4004**
Pack of 4

Lock Rack, Violet

Art. No: **E2350-4005**
Pack of 4

starlab.click/lockracks

-80 °C Freezer.



For more info and technical specifications

starlab.click/underbench-freezer

KEY BENEFITS

- ☑ Ideal for your personal -80 °C storage place
- ☑ Temperature range -60 to -86 °C
- ☑ Net volume of 91 litres
- ☑ Reduces heat and noise in your lab
- ☑ Ergonomic handle with lock
- ☑ Two port holes on the side provide flexibility and easy access
- ☑ USB port for temperature logger
- ☑ No filter - maintenance free!
- ☑ 48-hour backup
- ☑ 2-yr warranty

Description	Article No.
Underbench Freezer	N2700-1000

NOTE: Only available for sale in UK



Shelving

The freezer is supplied with two shelves. Stainless steel racking to hold storage boxes (made specifically for this freezer) is also available. See online for details.



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starlab.click/cellculture