



SCIENTIFIC PRODUCTS

www.celltreat.com

Exmarianca the CEI I TREAT Difference



Table of Contents

Accessories	19, 29, 51	Pipets	30 - 39
Bag Cutter	51	Plasteur® Plastic Pasteur	38 - 39
Lab Grab Multi-Use Extension Grabber	29	Polypropylene	39
Markers	19	Polystyrene	38
Timer	51	Aspirating Bulb	38
Beakers	60	Serological	30 - 36
Bio-reaction Tubes	22	Open End	36
Vent Control Labels	22	Plastic/Plastic Wrap	34
Bottles	17, 56, 58 - 60	Short	36
Centrifuge	17	Storage Rack	66
Media	56	Pipette Tips	6 - 9
Roller	58 - 59	Adjustable Pipettes	8
Solution	59	Bulk Packed - No Filter	8
Wide Mouth	60	Low Retention	6 - 7
Bottle Top Filters	61, 63	Low Retention - Reload System	9
Polypropylene	61	Racks	9
Polystyrene	63	Plates	44 - 49
Cell Lifters	41	Deep Well Storage	48
Cell Scrapers	40	Glass Bottom	46
Cell Strainers	23	Multiple Well	44 - 45, 49
Pestle	23	Permeable Cell Culture Inserts	47
Chambered Cell Culture Slides	57	Polypropylene	48
Slide Tray	56	Reagent Reservoirs	10 - 11
Cover Glass, Round	46	Polypropylene	11
Dishes	50 - 53	Polystyrene	10
Cell Culture	50 - 51	Sealing Films	49
Treated	50	Tubes	12 - 22 & 27 - 29
Non-Treated	51	Centrifuge Tubes	12 - 22
Glass Bottom	46	10mL	20
Petri	52 - 53	15 & 50mL	12 - 22
Compartment	52	Black	14, 20 - 21
Filtration	61 - 65	Colored Cap	16
50mL Centrifuge Tube Filter System	62 - 63	Flip Top	14, 19
Filter Systems & Bottle Top Filters	61 - 63	Plastic Rack Only	15
Glass Fiber Filter Disks	61	Printed Cap	15
Syringe Filters	64 - 65	Self-Standing	14, 19
Flasks	42 - 43 & 54 - 55	Snap-Pop Lid	18
Cell Culture	42 - 43	Sure Cap	18
Caps Only	43	5mL Macro	21
Erlenmeyer - PETG & Polycarbonate	54	Large Volume	17
Erlenmeyer & Fernbach - Polycarbonate	55	Micro	21
Transfer Assembly	55	Oak Ridge Style	16
Loops, Needles & Spreaders	52	Screw Top Micro	28 - 29
Pipets	30 - 39	Transport Tubes	27
Aspirating	37	Vials, CELLTREAT Freeze Cryogenic Vials	24 - 26
Bacteriological/Milk	36	Cap Inserts	26
Controllers	66	Rack & Storage Boxes	25 - 26

Experience the CELLTREAT Difference



CELLTREAT Unique & Exclusive Products



CELLTREAT has many products and features that are unique or exclusive to CELLTREAT Scientific Products. We have made it easier for you to find these items - look for this pink flask/check symbol throughout the catalog!

Product Certification & Material Indicator Symbols

For information about product sterility, material type and other features, please consult the reference table below and product tables on each page.

Product Certification and Material Indicator Symbols located in the black heading bar of each product table are included as a quick reference for ordering. Complete product and lot specific quality certificates are available through the CELLTREAT website - www.celltreat.com

Please refer to the chart on the right for the product specifications, primary materials and their indicator symbols.

* Limit varies by product. Please contact CELLTREAT for specific limits.

** Polypropylene Centrifuge Tubes are autoclavable. HDPE caps may be autoclaved at lower temperatures and should be inspected prior to use.

Symbol	Product Certification Indicator
S	Product is Sterile
N	Product is Non-sterile
R/D F	RNase/DNase Free
NP	Non-pyrogenic: Validated to have less than 0.1 to 0.5 EU/mL*
USP	Meets USP Class VI Certification Standards
A	Autoclavable**
Symbol	Product Material Indicator
ABS	Acrylonitrile butadiene styrene
GLS	Optical grade glass
HDPE	High Density Polyethylene
PC	Polycarbonate
PETG	Polyethylene terephthalate, glycol modified
PP	Polypropylene
PS	Polystyrene
TPE	Thermoplastic elastomers

Social Responsibility



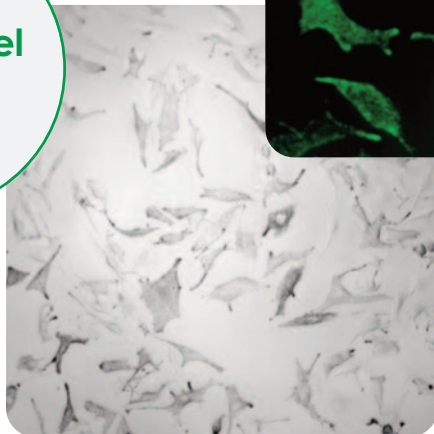
At CELLTREAT, we recognize our responsibility to conduct our business in a socially responsible manner, and to contribute to organizations that positively support the environment and our community.

For each case of CELLTREAT products that is purchased, a portion of the proceeds will benefit environmental initiatives supported by CELLTREAT Scientific Products.

The CELLTREAT Difference

Treat Your Cells

Trust our
oath to fuel
your cell
growth



- ▶ Consistent performance and high quality ensures our products exceed your standards
- ▶ Request a free sample to experience it yourself

- ▶ Maximize your savings with CELLTREAT's lower list pricing
- ▶ Stack your savings with free cases when you redeem CELLTREAT promotions



Save on
supplies no
matter your
size

Treat Yourself

Buy with
ease from
whom you
please



- ▶ However you buy, we have a way that works for you
- ▶ No matter where you're located, our large distribution network has you covered

The CELLTREAT Difference

Products
designed to
save you
time



- ▶ Work faster and easier
- ▶ Improved product and packaging designs



You get better service
because
mastering the details is
JUST WHAT WE DO!



At your
door when
you need
more

- ▶ Higher levels of stock
- ▶ Faster turnaround times
- ▶ Extensive shipping knowledge

Treat Your Shelf

















Your lab
gets more,
what a
score!



- ▶ Expect the unexpected; feel delighted by choosing CELLTREAT
- ▶ Reward yourself with free cases, product samples, and bonus items

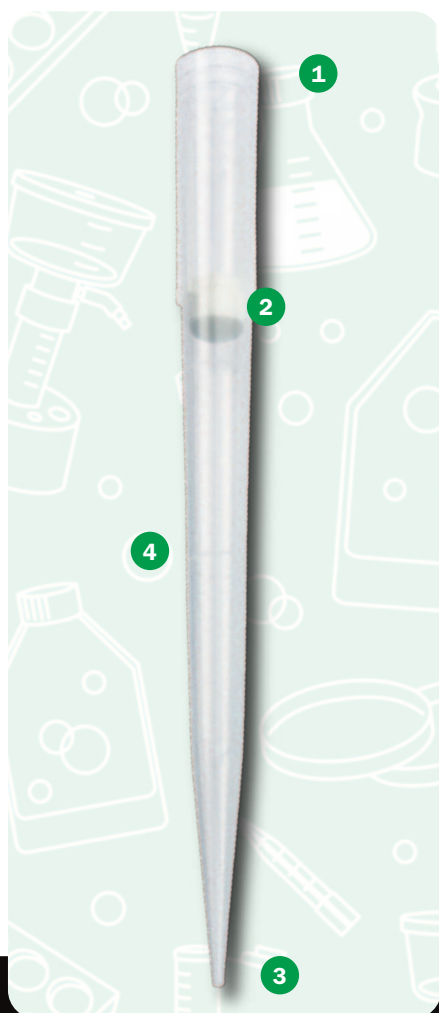
Pipette Tips

PIPETTE TIP SELECTION GUIDE

Tip Size	Low Retention	Low Retention, Filter
10µL	 229032	 229015
10µL Extended Length	 229033	 229016
20µL		 229017
100µL		 229018
200µL	 229034	 229019
300µL	 229035	 229020
1000µL	 229036	 229021
1000µL Extended Length	 229037	 229022

PIPETTE TIPS IN RACK - LOW RETENTION				S, R/D F, NP, USP, PP	
Part No.	Product Description	Low Retention (Y/N)	Filter (Y/N)	Pack Description	Qty/Case
229032	10µL Pipette Tips	Y	N	96 Tips/Rack	960
229033	10µL Extended Length Pipette Tips	Y	N	96 Tips/Rack	960
229034	200µL Pipette Tips	Y	N	96 Tips/Rack	960
229035	300µL Pipette Tips	Y	N	96 Tips/Rack	960
229036	1000µL Pipette Tips	Y	N	96 Tips/Rack	960
229037	1000µL Extended Length Pipette Tips	Y	N	96 Tips/Rack	960
PIPETTE TIPS IN RACK - LOW RETENTION, FILTER				S, R/D F, NP, USP, PP	
229015	10µL Pipette Tips	Y	Y	96 Tips/Rack	960
229016	10µL Extended Length Pipette Tips	Y	Y	96 Tips/Rack	960
229017	20µL Pipette Tips	Y	Y	96 Tips/Rack	960
229018	100µL Pipette Tips	Y	Y	96 Tips/Rack	960
229019	200µL Pipette Tips	Y	Y	96 Tips/Rack	960
229020	300µL Pipette Tips	Y	Y	96 Tips/Rack	960
229021	1000µL Pipette Tips	Y	Y	96 Tips/Rack	960
229022	1000µL Extended Length Pipette Tips	Y	Y	96 Tips/Rack	960

Pipette Tips



SUPERIOR LOW RETENTION & FINE TIP!

- CELLTREAT Scientific Products Pipette Tips deliver high performance with exceptional value. A perfected balance between raw materials and efficient manufacturing processes results in superior low retention
- Pipette Tips have smooth, hydrophobic surfaces to ensure accurate pipetting
- Multiple Pipette Tip sizes are available, including extended length tips (10 μ L and 1000 μ L) to allow better access to the bottom of test tubes, reagent bottles, flasks and other vessels
- 200 μ L filter tip is longer than standard tips for better access to vessels and increased headspace to filter
- Pipette Tip racks feature hinged lids that are designed for easy one-handed opening, making it easier to access repeatedly

- 1 Pipette Tips are universal fit and compatible with major pipettes
- 2 Filters reduce cross contamination and prevent aerosols from penetrating into the pipette, and are positioned to allow extra headspace when pipetting maximum volume
- 3 Fine tip for improved accuracy and precision
- 4 Molded volume reference markings offer a quick double check opportunity



NEW Adjustable Pipettes



- High precision adjustable pipette with easy-to-read volume display
- Continuously adjustable with locking ring to prevent volume changes while pipetting
- Lightweight design and easy operation with either hand
- Reduced operating forces; plunger is easy to press and dispense
- Stainless steel, PTFE and PVDF components for long life
- It is recommended to not autoclave more than 6 times
- Fits CELLTREAT Scientific Products Universal Pipette Tips for accurate pipetting



ADJUSTABLE PIPETTES

	Part No.	Product Description	Pack Description	Qty/Case
NEW	230299	1-10µL Pipette, Adjustable Volume, Single Channel	1/Box	1
NEW	230300	2-20µL Pipette, Adjustable Volume, Single Channel	1/Box	1
NEW	230305	20-200µL Pipette, Adjustable Volume, Single Channel	1/Box	1
NEW	230306	30-300µL Pipette, Adjustable Volume, Single Channel	1/Box	1
NEW	230310	100-1000µL Pipette, Adjustable Volume, Single Channel	1/Box	1

Pipette Tips - Bulk Packed

- Bulk, non-sterile Pipette Tips packed in unique self-standing, resealable bags
- See page 7 for complete information on Pipette Tips

PIPETTE TIPS - BULK PACKED, NO FILTER

N, R/D F, NP, USP, A, PP

Part No.	Product Description	Pack Description	Qty/Case
229042	10µL Pipette Tips	1000/Re-sealable Bag	5000
229043	10µL Extended Length Pipette Tips	1000/Re-sealable Bag	5000
229044	200µL Pipette Tips	1000/Re-sealable Bag	5000
229047	1000µL Pipette Tips	1000/Re-sealable Bag	5000
229049	1000µL Extended Length Pipette Tips	1000/Re-sealable Bag	5000



Pipette Tip Reload System



- Reload System offers clear window for easy identification of color-coded wafers
- Support wafers have large grasping tabs for easy removal from Reload System and Rack
- Secure locking tab keeps reload system closed and prevents tumbling tips
- Reduce plastic waste and save time by refilling empty racks

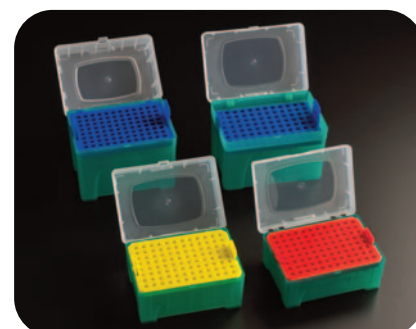
PIPETTE TIPS - LOW RETENTION, RELOAD SYSTEM

N, R/D F, NP, USP, PP

Part No.	Product Description	Low Retention (Y/N)	Filter (Y/N)	Pack Description	Qty/Case
229052	10µL Reload System	Y	N	960 Tips/Reload System	1920
229054	200µL Reload System	Y	N	960 Tips/Reload System	1920
229055	300µL Reload System	Y	N	960 Tips/Reload System	1920
229056	1000µL Reload System	Y	N	480 Tips/Reload System	1920
NEW 229057	1000µL Reload System, Extended Length	Y	N	480 Tips/Reload System	1920

Empty Pipette Tip Racks

- Hinged lids are designed for easy one-handed opening, making it easier to access repeatedly
- Lids have a stacking feature for added stability and a secure locking tab
- Lightweight lid design prevents tipping when open
- Interior support ribs prevent racks from warping
- Empty racks available with or without a wafer; with a wafer allows refill from bulk packed pipette tips, and without a wafer allows refill from pipette tip reload systems



EMPTY PIPETTE TIP RACKS

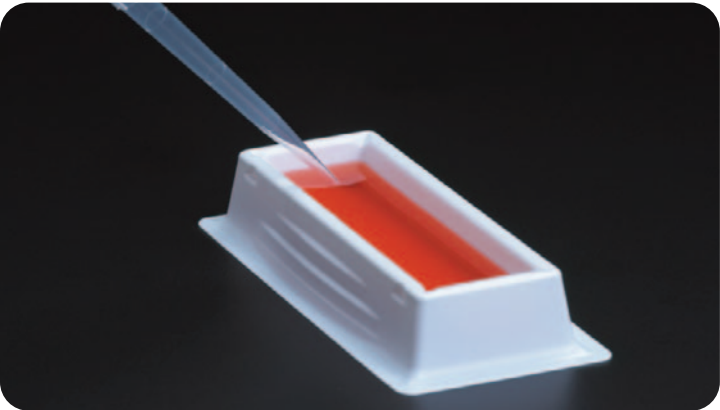
N, A, PP

Tip Size	Color	Racks for Bulk Tips (Wafer Included)	Racks for Reload System (No Wafer Included)	Qty/Case
10µL/10µL Extended Length	Red	229065	229060	20
200µL/300µL	Yellow	229066	229061	20
1000µL	Blue	229067	229062	20
1000µL Extended Length	Blue	229068	229063	20

Reagent Reservoirs - Polystyrene



- Reagent reservoirs are designed to assist in repetitive liquid transfer
- White color enhances solution visibility
- Angled design promotes funneling of liquid to maximize retrieval, and works well with multiple-channel pipettes (sizes 50, 55 & 100mL only)
- 25, 55 & 100mL Reagent Reservoirs feature pour spouts on the corners, textured gripping areas on the sides, and a nesting design for easy stacking and storage
- **NEW** - Now available in 25 and 100mL sizes



REAGENT RESERVOIRS - POLYSTYRENE			S, R/D F, NP, USP, PS	
	Part No.	Product Description	Pack Description	Qty/ Case
NEW	229294	25mL Reagent Reservoir	Individually Wrapped	80
NEW	229295	25mL Reagent Reservoir	5 Bulk Packed/Bag	200
	229290	50mL Reagent Reservoir	Individually Wrapped	80
	229291	50mL Reagent Reservoir	5 Bulk Packed/Bag	200
	229296	55mL Reagent Reservoir	Individually Wrapped	80
	229297	55mL Reagent Reservoir	5 Bulk Packed/Bag	200
NEW	229298	100mL Reagent Reservoir	Individually Wrapped	80
NEW	229299	100mL Reagent Reservoir	5 Bulk Packed/Bag	200

Reagent Reservoirs - Polypropylene



- Reservoirs are designed to assist in repetitive or robotic liquid transfer
- Pyramid and Trough Bottom designs promote funneling of liquid to maximize reagent recovery by pipette tips
- 8 & 12 well reservoirs work well with multiple-channel pipettes
- Low profile is ideal for small volume robotic tips
- Can be stored at temperatures as low as -80°C
- Polypropylene offers a low binding surface to prevent samples from sticking to the side walls during elution, and is chemically inert for combinatorial chemistry applications
- **NEW** - 8 and 12 Well Trough Bottom now available in sterile option

REAGENT RESERVOIRS - POLYPROPYLENE				R/D F, NP, USP, A, PP	
	Part No.	Product Description	Sterile	Pack Description	Qty/ Case
NEW	229561	Multiple Cavity Reagent Reservoir, 8 Well, Trough Bottom	N	5/Bag	25
	229565	Multiple Cavity Reagent Reservoir, 8 Well, Trough Bottom	Y	5/Bag	25
NEW	229562	Multiple Cavity Reagent Reservoir, 12 Well, Trough Bottom	N	5/Bag	25
	229566	Multiple Cavity Reagent Reservoir, 12 Well, Trough Bottom	Y	5/Bag	25
	229563	Single Cavity Reagent Reservoir, 96 Pyramid Bottom	N	5/Bag	25
	229564	Single Cavity Reagent Reservoir, 384 Pyramid Bottom	N	5/Bag	25

Centrifuge Tubes



FLIP TOP CAP
P. 19

SNAP-POP LID
P. 18

BIO-REACTION
P. 22

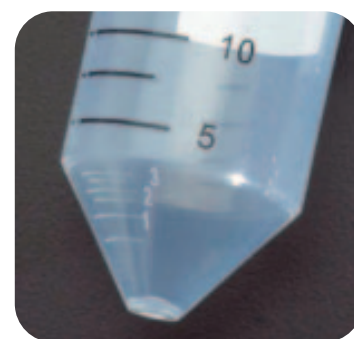
PRINTED CAP
P. 15

**SELF
STANDING**
P. 19

After more than a decade in the industry, CELLTREAT knows that each customer has unique needs when it comes to options and packaging. CELLTREAT offers high quality centrifuge tubes with a variety of special features and multiple packaging options to fit those needs. Refer to pages 14 - 22 for additional information on tube options.

15 & 50mL Conical Bottom Centrifuge Tube Features

- Graduations are printed in bold easy-to-read black ink and are accurate to $\pm 2\%$
- Large white marking area provides excellent contrast for identification
- Easy to write on flat surface polyethylene (HDPE) caps feature integrated leak-proof seal
- Temperature range of -80°C to 120°C (polypropylene only)
- See pages 14 - 15 for packaging options



- Graduations molded into the conical bottom, ideal for pellet viewing and small volume quantification

MICRO TUBES - P. 21



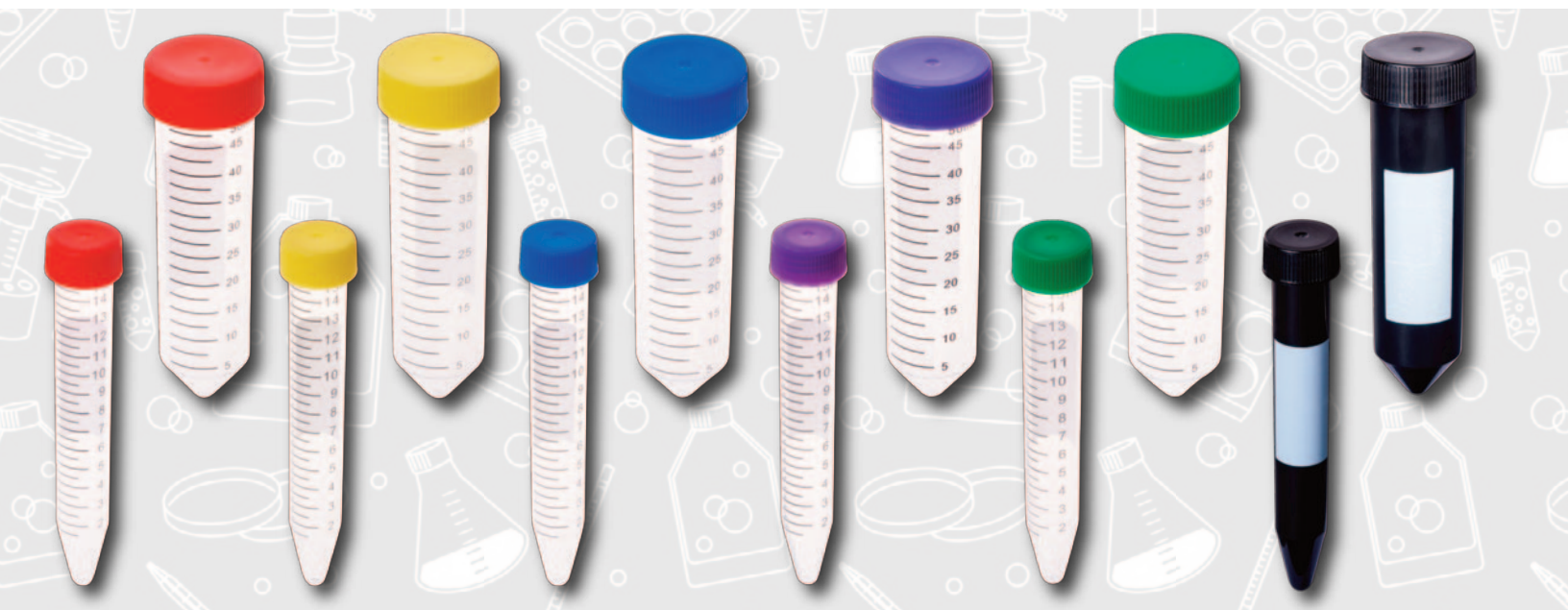
5 mL MACRO TUBES - P. 21



SCREW TOP MICRO TUBES - P. 28 & 29



Centrifuge Tubes



COLORED CAP
P. 16

STANDARD
P. 14 - 15

BLACK
P. 20

TRANSPORT TUBES - P. 27



10mL CENTRIFUGE TUBES - P. 20



SURE CAP TUBES - P. 18



LARGE VOLUME TUBES - P. 17



OAK RIDGE STYLE TUBES - P. 16



CENTRIFUGE BOTTLES - P. 17



Centrifuge Tubes - Bag

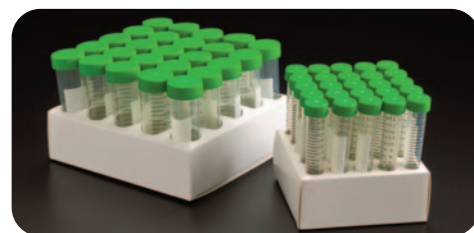


- Convenient zip-closure bag is a practical alternative to folding and taping opened bags
- Available in 15 & 50mL Conical Bottom, 50mL Self-Standing, 15 & 50mL Flip Top and 15 & 50mL Black tube options
- Easily refill reusable racks with tubes packed in bags
- See page 12 for complete information on Centrifuge Tubes

CENTRIFUGE TUBES - BAG					S, R/D F, NP, USP, A, PP
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229411	15mL Centrifuge Tube	12000 x g	Y	25/Re-sealable Bag	500
229421	50mL Centrifuge Tube	16000 x g	Y	25/Re-sealable Bag	500
229430	50mL Centrifuge Tube, Self-Standing	6000 x g	Y	25/Re-sealable Bag	500
FLIP TOP CENTRIFUGE TUBES - BAG					S, R/D F, NP, USP, A, PP
229417	15mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Re-sealable Bag	500
229427	50mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Re-sealable Bag	500
229425	50mL Centrifuge Tube, Flip Top Cap Only	NA	Y	25/Re-sealable Bag	1000
BLACK CENTRIFUGE TUBES - BAG					S, R/D F, NP, USP, A, PP
229431	15mL Centrifuge Tube, Black	12000 x g	Y	25/Re-sealable Bag	100
229432	15mL Centrifuge Tube, Black	12000 x g	Y	25/Re-sealable Bag	500
229433	50mL Centrifuge Tube, Black	16000 x g	Y	25/Re-sealable Bag	100
229434	50mL Centrifuge Tube, Black	16000 x g	Y	25/Re-sealable Bag	500
CAP OR TUBE ONLY CENTRIFUGE TUBES - BAG					N, R/D F, NP, USP, A, PP
229450	TUBE ONLY, 15mL Centrifuge Tube	12000 x g	N	500/Bag	500
229451	CAP ONLY, 15mL Centrifuge Tube	NA	N	500/Bag	500
229452	TUBE & CAP, 15mL Centrifuge Tube & Cap	12000 x g	N	Tubes 500/Bag & Caps 500/Bag	500
229453	CAP ONLY, 50mL Centrifuge Tube	NA	N	500/Bag	500
229454	TUBE ONLY, 50mL Centrifuge Tube	16000 x g	N	500/Bag	500
229456	TUBE & CAP, 50mL Centrifuge Tube & Cap	16000 x g	N	Tubes 500/Bag & Caps 500/Bag	500
NEW 229459	TUBE & CAP, 50mL Centrifuge Tube & Cap, Self-Standing	6000 x g	N	Tubes 500/Bag & Caps 500/Bag	500

Centrifuge Tubes - Paperboard Rack

- Economical, recyclable alternative to disposable foam rack
- Available in 15 & 50mL Screw Cap and 15 & 50mL Flip Top Cap tube options
- Folds flat for recycling or disposal
- See page 12 for complete information on Centrifuge Tubes



CENTRIFUGE TUBES - PAPERBOARD RACK					R/D F, NP, USP, A, PP
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229410	15mL Centrifuge Tube	12000 x g	Y	25/Paperboard Rack with 2 Racks/Bag	500
229420	50mL Centrifuge Tube	16000 x g	Y	25/Paperboard Rack	500
229455	50mL Centrifuge Tube	16000 x g	N	25/Paperboard Rack	500
FLIP TOP CENTRIFUGE TUBES - PAPERBOARD RACK					S, R/D F, NP, USP, A, PP
229416	15mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Paperboard Rack with 2 Racks/Bag	500
229426	50mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Paperboard Rack	500

Centrifuge Tubes - Plastic Rack

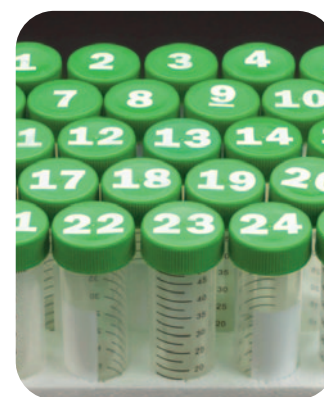
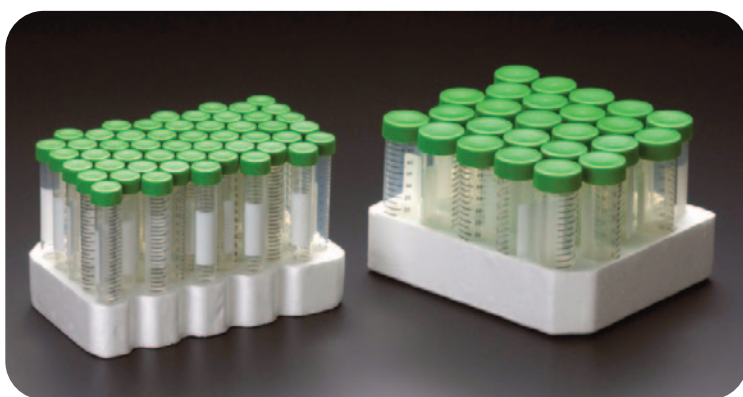


▲ Reusable/Recyclable Racks also available for purchase separately (Part No. 229419 & 229429)

- Plastic Racks are manufactured from polypropylene and are chemically resistant and autoclavable
- Durable racks are reusable and recyclable
- Design of the tray prevents racks from sticking/freezing to surfaces
- Widely spaced design catches drips and allows tubes to be easily retrieved

CENTRIFUGE TUBES - PLASTIC RACK					R/D F, NP, USP, A, PP
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229418	15mL Centrifuge Tube	12000 x g	Y	25/Plastic Rack with 2 Racks/Bag	300
229428	50mL Centrifuge Tube	16000 x g	Y	25/Plastic Rack	300
229419	PLASTIC RACK ONLY, 15mL Centrifuge Tube	NA	N	5/Bag	5
229429	PLASTIC RACK ONLY, 50mL Centrifuge Tube	NA	N	5/Bag	5

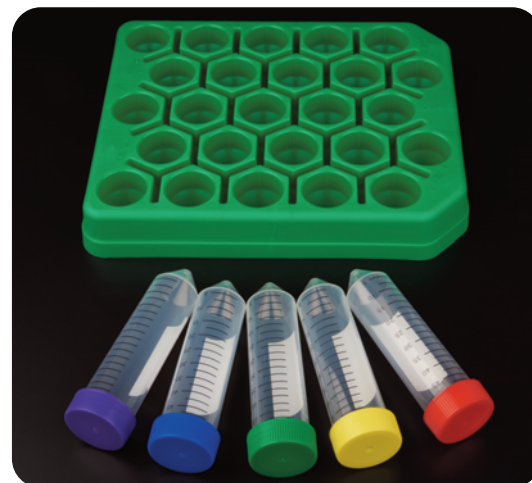
Centrifuge Tubes - Foam Rack



- Sturdy alternative to disposable paperboard racks
- See page 12 for complete information on Centrifuge Tubes
- Also available with printed marking spot and pre-numbered caps

CENTRIFUGE TUBES - FOAM RACK					S, R/D F, NP, USP, A, PP
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229412	15mL Centrifuge Tube	12000 x g	Y	50/Foam Rack	300
229422	50mL Centrifuge Tube	16000 x g	Y	25/Foam Rack	300
229423	50mL Centrifuge Tube, Marking Spot Cap	16000 x g	Y	25/Foam Rack	300
229424	50mL Centrifuge Tube, Numbered Cap	16000 x g	Y	25/Foam Rack	300

Colored Cap Centrifuge Tubes



Assorted color cases (PN 230411A & 230421A) include a free reusable plastic rack (PN 229419 & 229429)

- Easily color code samples for quick identification, customization and to increase productivity
- Tubes available packed with a single color per case or assorted cases containing 4 bags of each individual color (red, yellow, green, blue, purple)
- Same great features as standard centrifuge tubes, see page 12

COLORED CAP CENTRIFUGE TUBES

S, R/D F, NP, USP, A, PP

Part No.	Product Description	Cap Color	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
230411A	15mL Centrifuge Tube	Assorted	12000 x g	Y	25/Re-sealable Bag	500
229411	15mL Centrifuge Tube	Green	12000 x g	Y	25/Re-sealable Bag	500
230411B	15mL Centrifuge Tube	Blue	12000 x g	Y	25/Re-sealable Bag	500
230411P	15mL Centrifuge Tube	Purple	12000 x g	Y	25/Re-sealable Bag	500
230411R	15mL Centrifuge Tube	Red	12000 x g	Y	25/Re-sealable Bag	500
230411Y	15mL Centrifuge Tube	Yellow	12000 x g	Y	25/Re-sealable Bag	500
230421A	50mL Centrifuge Tube	Assorted	16000 x g	Y	25/Re-sealable Bag	500
229421	50mL Centrifuge Tube	Green	16000 x g	Y	25/Re-sealable Bag	500
230421B	50mL Centrifuge Tube	Blue	16000 x g	Y	25/Re-sealable Bag	500
230421P	50mL Centrifuge Tube	Purple	16000 x g	Y	25/Re-sealable Bag	500
230421R	50mL Centrifuge Tube	Red	16000 x g	Y	25/Re-sealable Bag	500
230421Y	50mL Centrifuge Tube	Yellow	16000 x g	Y	25/Re-sealable Bag	500

Oak Ridge Style Centrifuge Tubes



- High speed tubes feature a round bottom and uniform wall thickness
- Tubes are economical and leak-proof for refrigerated or standard centrifugation
- Tube should be filled 80% of total capacity to obtain maximum results

OAK RIDGE STYLE CENTRIFUGE TUBES

N, USP, A, PP

Part No.	Product Description	Max RCF	Sterile (Y/N)	Qty/Case
229460	10mL Oak Ridge Style Centrifuge Tube, Round Bottom	50000 x g	N	12
229461	30mL Oak Ridge Style Centrifuge Tube, Round Bottom	50000 x g	N	12
229462	50mL Oak Ridge Style Centrifuge Tube, Round Bottom	50000 x g	N	12

Large Volume Centrifuge Tubes

- For applications requiring large volume centrifugation
- Tubes include molded graduation lines
- Polyethylene (HDPE) cap with integrated plug seal provides a secure closure
- Temperature range of -80°C to 120°C
- Use of a rotor cushion is advised to support tubes during centrifugation
- **NEW** - Now available in 500mL size



LARGE VOLUME CENTRIFUGE TUBES					S, R/D F, NP, USP, A, PP	
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case	
229465	225mL Conical Bottom Centrifuge Tube	7500 x g	Y	6/Re-sealable Bag	48	
229466	250mL Conical Bottom Centrifuge Tube	7500 x g	Y	6/Re-sealable Bag	48	
NEW 229463	500mL Conical Bottom Centrifuge Tube	6000 x g	Y	6/Re-sealable Bag	36	

Centrifuge Bottles

- Centrifuge Bottles have a rigid body for low to moderate speed centrifugation of biological and chemical samples
- High quality polycarbonate and polypropylene have excellent chemical resistance
- Reusable and autoclavable
- Use of a rotor cushion is advised to support bottles during centrifugation
- Packaged non-sterile in re-sealable bags



POLYCARBONATE

- Optically clear for high visibility
- Seal cap features integrated silicone gasket for leak-proof seal
- Cap has extended lip to facilitate removal from rotor, and gripping ridges for easy opening and closing
- Bottles include molded graduation lines
- Bottle should be filled 80% of total capacity to obtain maximum results

POLYPROPYLENE

- Translucent and provides chemical resistivity needed for many applications
- Bottle should be filled 75% of total capacity to obtain maximum results

CENTRIFUGE BOTTLES - POLYCARBONATE					N, USP, A, PC
Part No.	Product Description	Max RCF	Sterile (Y/N)	Qty/Case	
229464	250mL Centrifuge Bottle - Polycarbonate	13700 x g	N	4	
229469	500mL Centrifuge Bottle - Polycarbonate	13850 x g	N	4	
CENTRIFUGE BOTTLES - POLYPROPYLENE					N, USP, A, PP
229467	250mL Centrifuge Bottle - Polypropylene	27500 x g	N	2	
229468	500mL Centrifuge Bottle - Polypropylene	13500 x g	N	2	

Snap-Pop Lid Centrifuge Tubes



**AUDIBLE 'SNAP!' GIVES YOU CONFIDENCE
THAT THE TUBE IS COMPLETELY CLOSED**



- Easily open or seal the tube with one hand; same hinged cap style as micro centrifuge tubes
- Elongated lip on attached cap prevents finger contact with tube, reducing cross contamination
- Ideal for sample storage, collection and experimental procedures
- Single-piece design is easy to use in the lab or the field
- Offers savings advantage versus traditional flip-top screw cap
- Available in conical and self-standing bottoms

CONICAL BOTTOM

S, R/D F, NP, A, PP

Part No.	Product Description	Max RCF	Pack Description	Qty/ Case
229496	15mL Centrifuge Tube	5500 x g	50/Re-sealable Bag	500
229498	50mL Centrifuge Tube	9000 x g	25/Re-sealable Bag	500

SELF-STANDING

S, R/D F, NP, A, PP

229497	15mL Centrifuge Tube	1000 x g	50/Re-sealable Bag	500
229499	50mL Centrifuge Tube	1000 x g	25/Re-sealable Bag	500

Sure Cap Centrifuge Tubes

SURE CAP - POLYPROPYLENE & POLYSTYRENE TUBES

- Sure Cap with compressible liner creates a stable seal
- Available in 15 & 50mL **polypropylene** and 15mL **polystyrene** tube options
- Polypropylene tubes have same great features as standard tube offering (see page 12)

SURE CAP - POLYSTYRENE TUBES

- Polystyrene tube is optically clear for easy viewing of sample
- Includes molded 15mL graduation line plus 0.5 and 1mL graduations molded into conical bottom allowing for small volume quantification



SURE CAP CENTRIFUGE TUBES - POLYPROPYLENE

S, R/D F, NP, A (Tube Only), PP

Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/ Case
229401	15mL Centrifuge Tube, Sure Cap	12000 x g	Y	25/Re-sealable Bag	500
229402	50mL Centrifuge Tube, Sure Cap	16000 x g	Y	25/Re-sealable Bag	300

SURE CAP CENTRIFUGE TUBES - POLYSTYRENE

S, R/D F, NP, PS

229491	15mL Centrifuge Tube, Sure Cap	3000 x g	Y	25/Re-sealable Bag	500
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Flip Top Cap Centrifuge Tubes



- Ergonomic flip top screw cap is designed for single handed operation
- Easily flip cap open or screw on/off as a standard cap
- Graduations are printed in bold, easy-to-read black ink and are accurate to $\pm 2\%$
- Large white marking area provides excellent contrast for identification
- Easy to write on flat surface polyethylene (HDPE) caps
- Tubes include graduations molded into the conical bottom, ideal for pellet viewing and small volume quantification
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags
- Paperboard rack is a recyclable, fold-flat alternative to bulky foam racks

15ML CENTRIFUGE TUBES - FLIP TOP CAP

S, R/D F, NP, USP, A, PP

Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229416	15mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Paperboard Rack with 2 Racks/Bag	500
229417	15mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Re-sealable Bag	500

50ML CENTRIFUGE TUBES - FLIP TOP CAP

S, R/D F, NP, USP, A, PP

229426	50mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Paperboard Rack	500
229427	50mL Centrifuge Tube, Flip Top Cap	9400 x g	Y	25/Re-sealable Bag	500
229425	50mL Centrifuge Tube, Flip Top Cap Only	NA	Y	25/Re-sealable Bag	1000

Self-Standing Centrifuge Tubes

- Self-Standing base for use without a rack
- Graduations are printed in bold, easy-to-read black ink and are accurate to $\pm 2\%$
- Large white marking area provides excellent contrast for identification
- Easy to write on flat surface polyethylene (HDPE) caps feature integrated leak-proof seal
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags

CENTRIFUGE TUBES - SELF-STANDING

S, R/D F, NP, USP, A, PP

Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229430	50mL Centrifuge Tube, Self-Standing	6000 x g	Y	25/Re-sealable Bag	500
229459	TUBE & CAP, 50mL Centrifuge Tube & Cap, Self-Standing	6000 x g	N	Tubes 500/Bag & Caps 500/Bag	500



Markers



- Fast drying, smudge resistant, fine point marker
- Ideal for permanently marking all plastic labware, especially centrifuge tubes

MARKERS

Part No.	Product Description	Qty/Case
229405	Green Tube Marker, Fast Drying Ink	5
229406	Blue Tube Marker, Fast Drying Ink	5
229407	Black Tube Marker, Fast Drying Ink	5
229408	Red Tube Marker, Fast Drying Ink	5

Black Centrifuge Tubes



PROTECT LIGHT SENSITIVE COMPOUNDS!

- Eliminate the need to wrap tubes with aluminum foil
- Large white marking area provides excellent contrast for identification
- Flat surface polyethylene (HDPE) caps feature integrated leak-proof seal
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags
- Available in smaller case quantity of 100 tubes per case or standard 500 tubes per case

BLACK CENTRIFUGE TUBES - BAG				S, R/D F, NP, USP, A, PP	
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case
229431	15mL Centrifuge Tube, Black	12000 x g	Y	25/Re-sealable Bag	100
229432	15mL Centrifuge Tube, Black	12000 x g	Y	25/Re-sealable Bag	500
229433	50mL Centrifuge Tube, Black	16000 x g	Y	25/Re-sealable Bag	100
229434	50mL Centrifuge Tube, Black	16000 x g	Y	25/Re-sealable Bag	500

NEW 10mL Centrifuge Tubes



10mL vs. 15mL Centrifuge Tube



SAME DIAMETER AS STANDARD 15mL CONICAL BOTTOM TUBE TO USE WITH EXISTING EQUIPMENT!

- Offers the convenience of a micro centrifuge tube with the ability to process sample volumes up to 10mL
- Easily access cell pellets and reduce contamination risk with shorter tube
- Graduations are printed in bold, easy-to-read black ink and are accurate to +/-2%
- Large white marking area provides excellent contrast for identification
- Easy to write on flat surface polyethylene (HDPE) caps feature integrated leak-proof seal
- Tubes include graduations molded into the conical bottom, ideal for pellet viewing and small volume quantification
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags

CENTRIFUGE TUBES - BAG					S, R/D F, NP, USP, A, PP
	Part No.	Product Description	Sterile (Y/N)	Pack Description	Qty/Case
NEW	229493	10mL Centrifuge Tube	Y	25/Re-sealable Bag	500

5mL Macro Centrifuge Tubes

- Offers the convenience of a micro centrifuge tube with the ability to process sample volumes up to 5mL
- Tube diameter is the same as a standard 15mL conical bottom centrifuge tube enabling use with existing equipment
- All tubes have frosted marking spot and engraved graduations
- Attached flat top cap is easy to open and close with one hand
- Center of the cap includes a thin "membrane" area designed for easy puncture and access by a syringe/needle
- Opaque black tube protects light sensitive compounds



5ML MACRO CENTRIFUGE TUBES					R/D F, USP, A, PP	
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case	
229439	5mL Macro Centrifuge Tube, Black	25000 x g	N	50/Re-sealable Bag	100	
229449	5mL Macro Centrifuge Tube	25000 x g	Y	20/Re-sealable Bag	100	

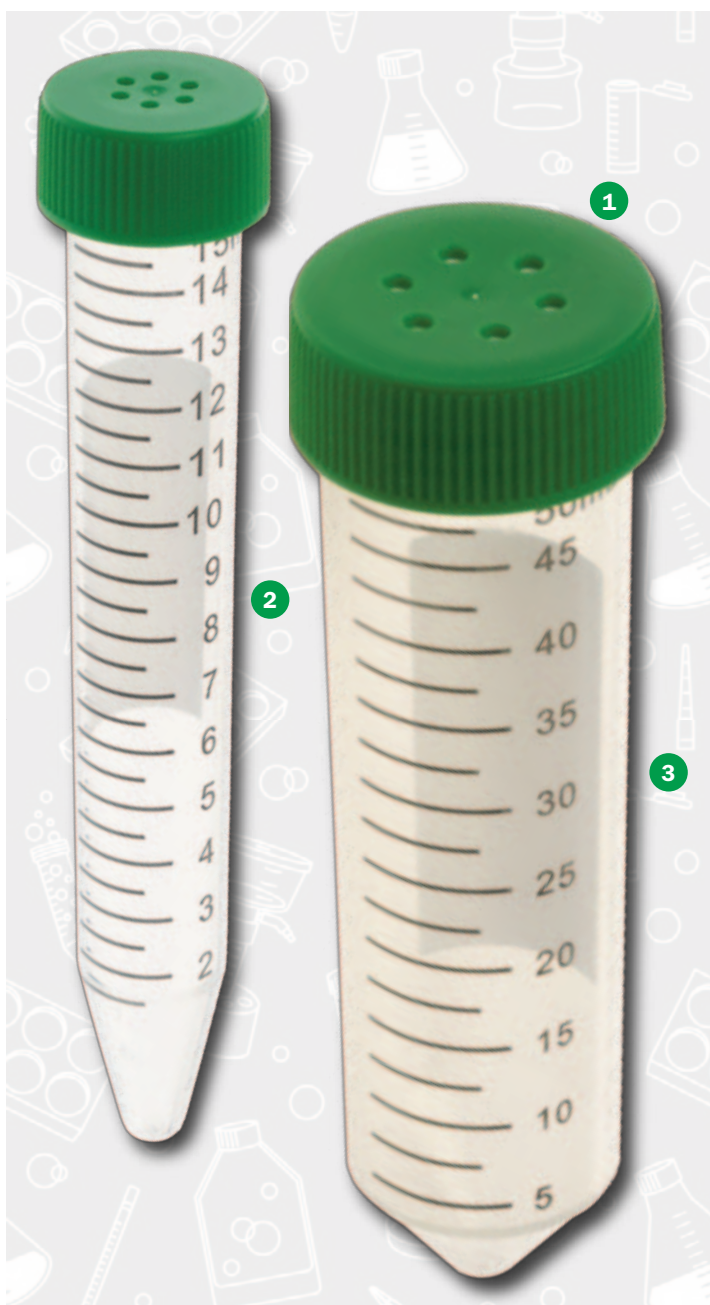
Micro Centrifuge Tubes



- All tubes have a frosted marking spot and engraved graduations
- Attached flat top cap is easy to open and close with one hand
- 1.5mL opaque black tube protects light sensitive compounds

MICRO CENTRIFUGE TUBES					R/D F, NP, USP, A, PP	
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/Case	
NEW 230400	0.5mL Micro Centrifuge Tube	25000 x g	Y	500/Re-sealable Bag	1000	
NEW 230401	0.5mL Micro Centrifuge Tube	25000 x g	N	500/Re-sealable Bag	1000	
229440	0.5mL Micro Centrifuge Tube	25000 x g	Y	1000/Re-sealable Bag	5000	
229441	1.5mL Micro Centrifuge Tube	25000 x g	N	500/Re-sealable Bag	1000	
229442	1.5mL Micro Centrifuge Tube	25000 x g	Y	500/Re-sealable Bag	1000	
229443	1.5mL Micro Centrifuge Tube	25000 x g	Y	1000/Re-sealable Bag	5000	
229437	1.5mL Micro Centrifuge Tube, Black	25000 x g	Y	500/Re-sealable Bag	1000	
NEW 230402	2.0mL Micro Centrifuge Tube	25000 x g	Y	500/Re-sealable Bag	1000	
NEW 230403	2.0mL Micro Centrifuge Tube	25000 x g	N	500/Re-sealable Bag	1000	
229446	2.0mL Micro Centrifuge Tube	25000 x g	Y	1000/Re-sealable Bag	5000	
229448	2.0mL Micro Centrifuge Tube, Self-Standing	15000 x g	N	500/Re-sealable Bag	5000	

Bio-Reaction Tubes



- Bio-reaction tubes offer a convenient and economical option for small scale, high density suspension cell culture
- Ideal for biological reaction applications that require sterile conditions and free gas exchange
- Aseptic conditions are maintained through 0.22µm hydrophobic vented membrane
- Useful in the screening and optimization processes of suspension cells
- Reaction parameters can be optimized using small amounts of materials, maximizing the number of parallel experiments that can be performed simultaneously
- Ideal for suspension cell culture, bacterial growth, seeding larger bioreactors and supporting start-up testing procedures for larger bioreactors
- Can be used for lyophilization

- 1 Feature a 0.22µm hydrophobic membrane in the vent cap
- 2 Easy-to-read black graduations
- 3 Large white marking area



Vent control labels for 50mL Bio-Reaction Tube Caps cover 1 to 5 of the cap vent openings to control the amount of gas exchanged (Part No. 229478)

BIO-REACTION TUBES				S, R/D F, NP, USP, A, PP	
Part No.	Product Description	Max RCF	Sterile (Y/N)	Pack Description	Qty/ Case
229471	15mL Bio-Reaction Tube	12000 x g	Y	10/Re-sealable Bag	100
229472	15mL Bio-Reaction Tube	12000 x g	Y	50/Foam Rack	300
229475	50mL Bio-Reaction Tube	16000 x g	Y	10/Re-sealable Bag	100
229476	50mL Bio-Reaction Tube	16000 x g	Y	25/Foam Rack	300
229479	50mL Self-Standing Bio-Reaction Tube	6000 x g	Y	10/Re-sealable Bag	100
BIO-REACTION TUBE CAPS				S, R/D F, NP, USP, HDPE	
229473	CAP ONLY, Vented, Fits 15mL Bio-Reaction Tube	NA	Y	25/Re-sealable Bag	100
229477	CAP ONLY, Vented, Fits 50mL Bio-Reaction Tube	NA	Y	25/Re-sealable Bag	100
BIO-REACTION TUBE VENT CONTROL LABELS				N	
229478	Vent Control Label, 50mL Bio-Reaction Tube, Sheet	NA	N	10 Sets/Page	500

Cell Strainers



**EXCLUSIVE PESTLE IS AN INEXPENSIVE
AND CONVENIENT TOOL FOR USE WITH
CELL STRAINERS!**

- Can be used for many applications including isolating cells and removing clumps or debris
- Hydrophilic treatment increases flow and reduces the effects of surface tension
- Designed to universally fit most brands of 50mL conical tubes
- The CELLTREAT exclusive pestle design improves manipulation of material in the strainer during use

- 1** Polypropylene housing with nylon mesh filter eliminates the need to fabricate filters from gauze, paper, nylon mesh, or other materials
- 2** Extended lip on housing enables aseptic handling with forceps
- 3** Elongated gripping tab on housing for easy handling
- 4** 5.5 inch pestle length for convenient hand manipulation
- 5** Convex pestle head includes molded textured surface



▲ Cell Strainers are also available bulk packed in re-sealable bags

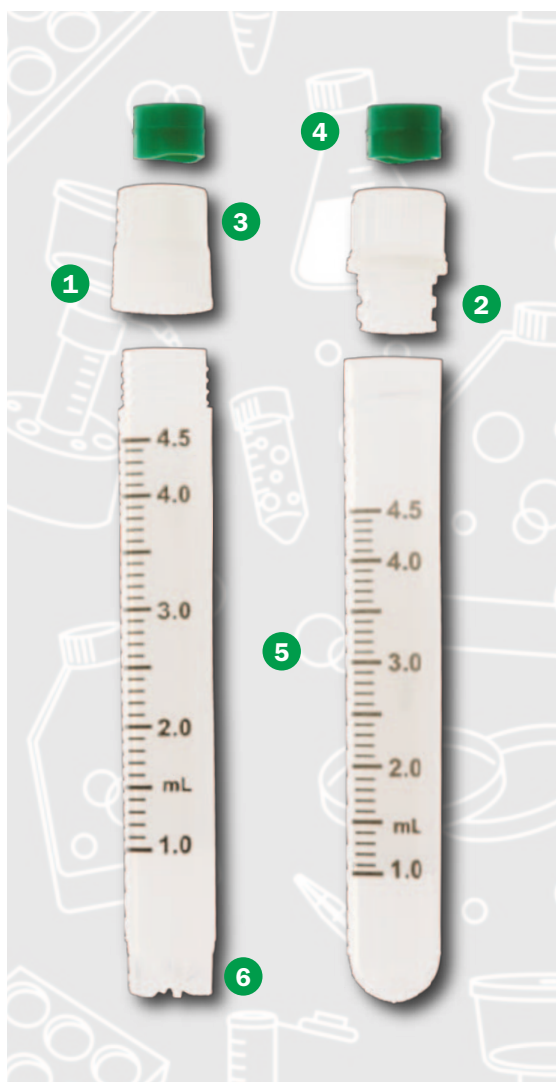


CELL STRAINERS

S, R/D F, NP, USP, PP

Part No.	Product Description	Pore Size	Color	Pack Description	Qty/Case
229481	Cell Strainer	40µm	Blue	Individually Wrapped	50
229482	Cell Strainer	40µm	Blue	10 Bulk Packed/Bag	50
229483	Cell Strainer	70µm	White	Individually Wrapped	50
229484	Cell Strainer	70µm	White	10 Bulk Packed/Bag	50
229485	Cell Strainer	100µm	Yellow	Individually Wrapped	50
229486	Cell Strainer	100µm	Yellow	10 Bulk Packed/Bag	50
229480	Pestle	NA	Green	Individually Wrapped	50

CELLTREAT® Freeze Cryogenic Vials



- CELLTREAT Freeze Cryogenic Vials are designed for storing biological material at temperatures as low as -196°C , in the gas phase of liquid nitrogen
- Available in round bottom or self-standing options
- Self-standing re-sealable bags offer a unique storage solution
- Large white marking area for writing provides backdrop to enhance black graduations

Accessory items also available

- Easily color-code samples with colored cap inserts (see page 26)
- Easy-Grip Workstation Rack and Storage Boxes available to hold and store CELLTREAT Freeze Cryogenic Vials (see pages 25 - 26)

- 1 External thread cap features integrated leak-proof seal, a long skirt for easy one hand aseptic methods, and a thread design allowing it to be removed or sealed with a mere $1\frac{1}{4}$ turn. External threads also reduce contamination.
- 2 Internal thread cap uses O-ring silicone seal to ensure positive seal at any temperature
- 3 Caps have textured ridges to improve grip when wearing gloves
- 4 Cap Inserts available in 10 different colors to easily color-code samples
- 5 Contrasting black graduations are large and easy to view
- 6 Self-standing bottoms interlock with Easy-Grip Workstation Rack (Part No. 229941) enabling easy one-handed opening

CELLTREAT® Freeze Cryogenic Vials



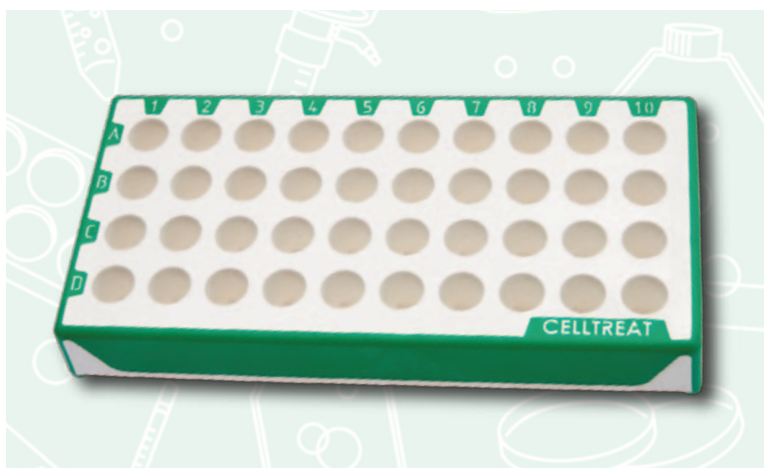
Packed in unique self-standing, re-sealable bag with 100 Cryogenic Vials per case



CELLTREAT product descriptions are based on the highest graduation mark on the vial. Other brands may name vials based on actual liquid capacity which is listed in the table below.

CELLTREAT FREEZE CRYOGENIC VIALS - INTERNAL THREAD						S, R/D F, NP, USP, A, PP
Part No.	Product Description	Liquid Capacity	Threading	Base	Pack Description	Qty/Case
229913	1mL CF Cryogenic Vial	1.2mL	Internal	Self-Standing	100 Bulk/Re-sealable Bag	100
229914	1.8mL CF Cryogenic Vial	2.0mL	Internal	Round-Bottom	100 Bulk/Re-sealable Bag	100
229915	1.8mL CF Cryogenic Vial	2.0mL	Internal	Self-Standing	100 Bulk/Re-sealable Bag	100
229916	3.6mL CF Cryogenic Vial	4.0mL	Internal	Round-Bottom	100 Bulk/Re-sealable Bag	100
229917	3.6mL CF Cryogenic Vial	4.0mL	Internal	Self-Standing	100 Bulk/Re-sealable Bag	100
229918	4.5mL CF Cryogenic Vial	5.0mL	Internal	Round-Bottom	100 Bulk/Re-sealable Bag	100
229919	4.5mL CF Cryogenic Vial	5.0mL	Internal	Self-Standing	100 Bulk/Re-sealable Bag	100
CELLTREAT FREEZE CRYOGENIC VIALS - EXTERNAL THREAD						S, R/D F, NP, USP, A, PP
229923	1mL CF Cryogenic Vial	1.2mL	External	Self-Standing	100 Bulk/Re-sealable Bag	100
229925	1.8mL CF Cryogenic Vial	2.0mL	External	Self-Standing	100 Bulk/Re-sealable Bag	100
229929	4.5mL CF Cryogenic Vial	5.0mL	External	Self-Standing	100 Bulk/Re-sealable Bag	100

CELLTREAT Freeze Cryogenic Vial Workstation Rack



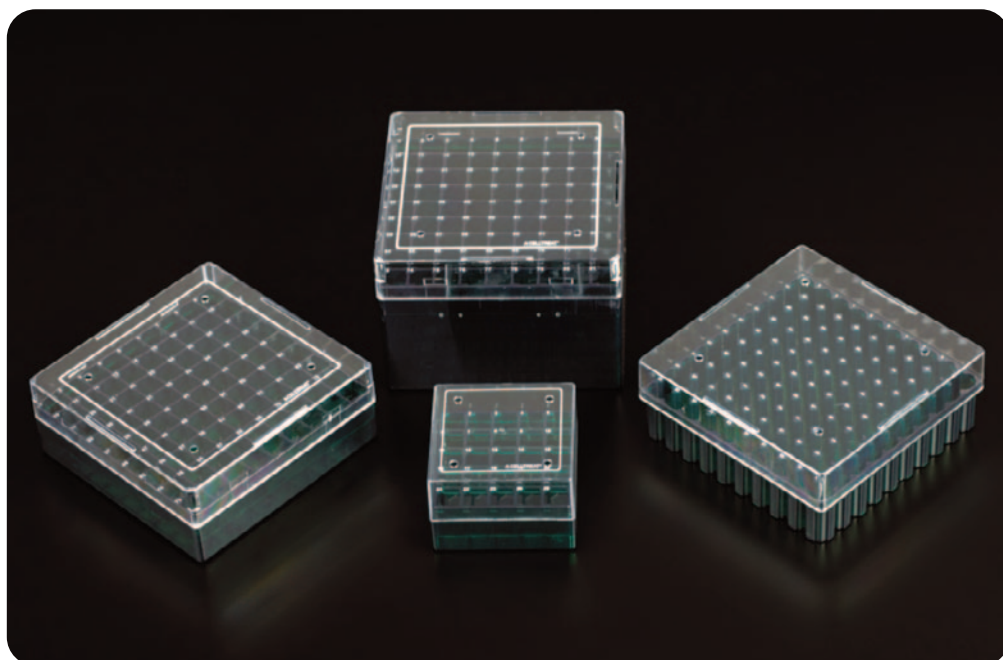
ENABLES EASY ONE-HANDED OPENING & CLOSING OF VIALS!

- Individual positions feature ribs which interlock with CELLTREAT Freeze Self Standing Cryogenic Vials for easy one-handed opening and closing
- Features four gripping feet for increased stability and reduced slipping during use
- Low-profile design for maximum storage efficiency
- Labeled with alpha-numeric markings for easy identification of individual positions

CELLTREAT FREEZE CRYOGENIC VIAL WORKSTATION RACK			N, A, PP
Part No.	Product Description	Qty/Case	
229941	Easy-Grip Workstation Rack, CF Cryogenic Vial, 40 Place	2/Re-sealable Bag	

CELLTREAT® Freeze Cryogenic Vial Storage Boxes

- Durable polycarbonate material designed to withstand a wide temperature range and is a reusable, autoclavable alternative to disposable boxes
- Ventilation holes in the lids and bases prevent vacuum sealing in freezer
- Storage Boxes are labeled with numeric markings for easy identification of individual positions
- Safe to use at ultra-low temperatures
- 100 place box features ridges along the sides to improve handling



CELLTREAT FREEZE CRYOGENIC VIAL STORAGE BOXES			N, R/D F, NP, USP, A, PC
Part No.	Product Description	Compatible With	Qty/Case
229942	Storage Box, CF Cryogenic Vial, 25 Place	Fits 1mL-1.8mL vials	5
229943	Storage Box, CF Cryogenic Vial, 81 Place	Fits 1mL-1.8mL vials	5
229945	Storage Box, Cryogenic Vial, 100 Place	Fits 1mL-1.8mL vials	5
229944	Deep Storage Box, CF Cryogenic Vial, 81 Place	Fits 4.5mL vials	5

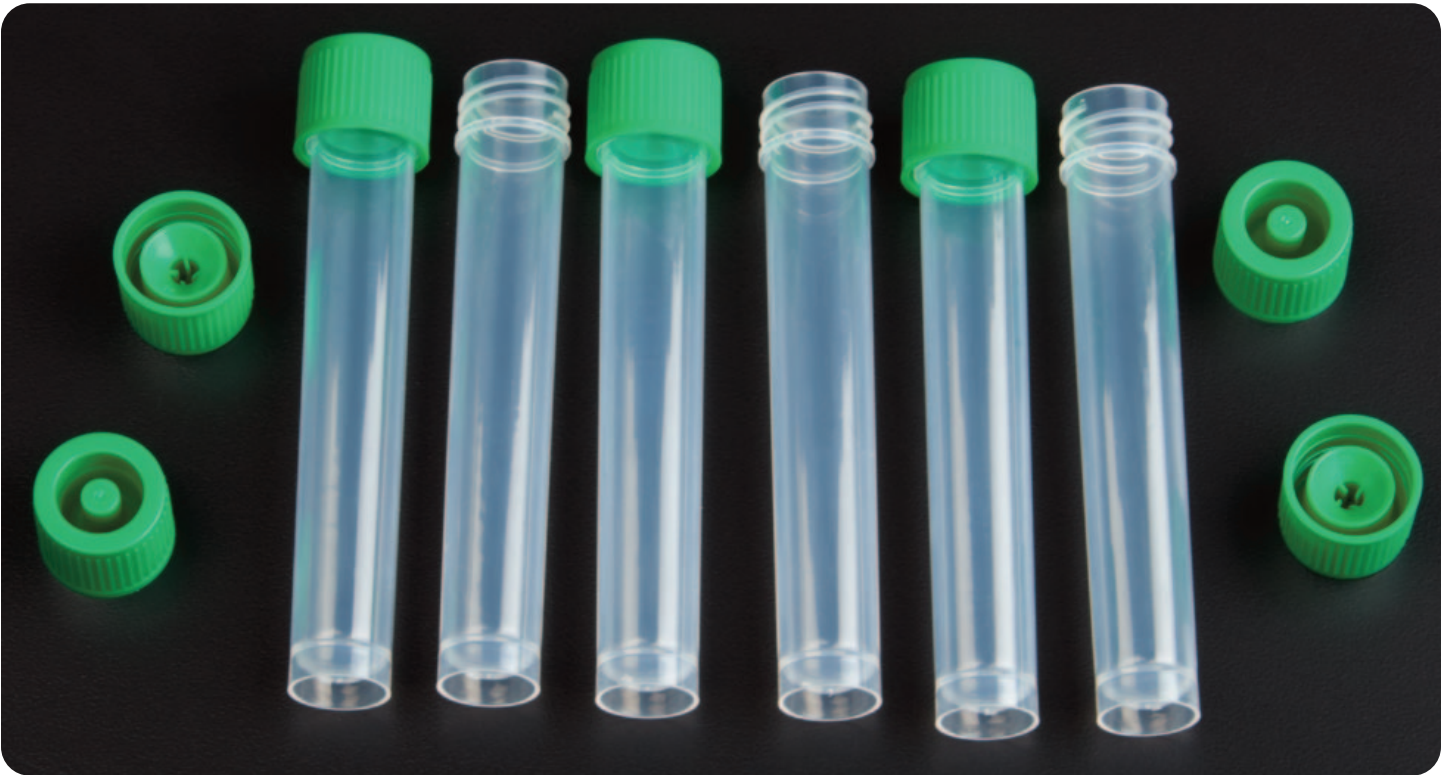
CELLTREAT Freeze Cryogenic Vials Cap Inserts



- Easily color-code samples with colored cap inserts
- CELLTREAT Freeze Cap Inserts are compatible with all CELLTREAT Freeze Cryogenic Vials

CELLTREAT FREEZE CRYOGENIC VIALS - CAP INSERTS				N, R/D F, NP, USP, PP
Part No.	Product Description	Color	Pack Description	Qty/Case
229930	Cap Insert for CF Cryogenic Vials	Red	500 Bulk Packed/Re-sealable Bag	500
229931	Cap Insert for CF Cryogenic Vials	Orange	500 Bulk Packed/Re-sealable Bag	500
229932	Cap Insert for CF Cryogenic Vials	Yellow	500 Bulk Packed/Re-sealable Bag	500
229933	Cap Insert for CF Cryogenic Vials	Green	500 Bulk Packed/Re-sealable Bag	500
229934	Cap Insert for CF Cryogenic Vials	Blue	500 Bulk Packed/Re-sealable Bag	500
229935	Cap Insert for CF Cryogenic Vials	Purple	500 Bulk Packed/Re-sealable Bag	500
229936	Cap Insert for CF Cryogenic Vials	Pink	500 Bulk Packed/Re-sealable Bag	500
229937	Cap Insert for CF Cryogenic Vials	Brown	500 Bulk Packed/Re-sealable Bag	500
229938	Cap Insert for CF Cryogenic Vials	Gray	500 Bulk Packed/Re-sealable Bag	500
229939	Cap Insert for CF Cryogenic Vials	White	500 Bulk Packed/Re-sealable Bag	500
229940	Cap Insert for CF Cryogenic Vials	Assorted	500 Bulk Packed/Re-sealable Bag	500

NEW Transport Tubes



- Transport tubes offer advanced seal and extended deep cap to prevent leaking when shipping samples
- Compliant with 95 KPa IATA Packaging Instruction 650
- Cap is designed to accommodate swab for transport, and is easily sealed or removed with a single turn
- Self-standing base allows use without racks
- Round bottom maximizes liquid retrieval and will not pinch swabs
- High-quality, medical grade virgin polypropylene is transparent for viewing samples, shatterproof, and resistant to heat and cold
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags

TRANSPORT TUBES				S, R/D F, NP, A, PP
Part No.	Product Description		Pack Description	Qty/Case
NEW 230417	12mL Transport Tube		100/Re-sealable Bag	500
NEW 230418	12mL Transport Tube - Tubes & Caps Packed Separate		Tubes 100/Bag & Caps 100/Bag	500
NEW 230419	12mL Transport Tube - Tubes & Caps Packed Separate		Tubes 100/Bag & Caps 100/Bag	1000

Screw Top Micro Tubes



Product Family Categories:

- Sterile Assemblies (Tube with Green Grip Cap)
- Cap Only (Grip Cap, Opaque Cap, Translucent Cap)
- Tube Only (Conical Bottom & Self-Standing)



- High temperature resistivity range – shatter/crack resistant and ideal for boiling
- Easy ¾ turn to open and close
- Sterile Assemblies packed in self-standing re-sealable bags offer a unique storage solution
- Translucent and Opaque Cap O-rings ensure leak-proof seal
- Translucent and Opaque Cap O-rings are a highly visible contrasting color
- Caps are available in various colors for easy identification and color-coding
- Caps are compatible with all CELLTREAT Screw Top Micro Tubes
- Autoclavable

- 1 Grip band tubes feature ribs that provide exceptional gripping surface and lessen movement during centrifugation
- 2 Graduated tubes have markings every 100µL for easy volume identification
- 3 Premium Grip Cap features molded TPE sealing rings which ensure O-ring will never slip out of place; striped TPE grips on cap edge enable secure handling under all conditions

SCREW TOP MICRO TUBES - STERILE ASSEMBLIES

S, R/D F, NP, USP, A, PP

Part No.	Product Description	Tube Feature	Cap Feature	Base	Pack Description	Qty/ Case
230810	0.5mL Sterile Assemblies	Grip Band	Green Grip Cap	Self-Standing	50/Re-sealable Bag	500
230820	1.5mL Sterile Assemblies	Grip Band	Green Grip Cap	Self-Standing	50/Re-sealable Bag	500
230830	2.0mL Sterile Assemblies	Grip Band	Green Grip Cap	Self-Standing	50/Re-sealable Bag	500

Screw Top Micro Tubes





















SCREW TOP MICRO TUBES - TUBE ONLY

N, R/D F, NP, USP, A, PP

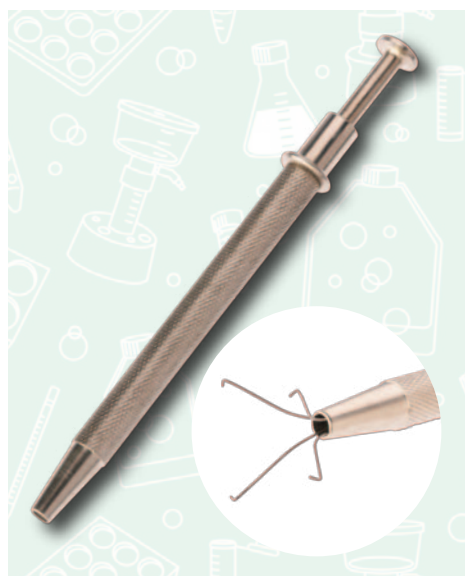
Part No.	Product Description	Tube Feature	Base	Pack Description	Qty/Case
230811	0.5mL Tube Only	Grip Band	Self-Standing	500/Re-sealable Bag	1000
230823	1.5mL Tube Only	Graduated	Conical	500/Re-sealable Bag	1000
230821	1.5mL Tube Only	Grip Band	Self-Standing	500/Re-sealable Bag	1000
230833	2.0mL Tube Only	Graduated	Conical	500/Re-sealable Bag	1000
230831	2.0mL Tube Only	Grip Band	Self-Standing	500/Re-sealable Bag	1000

SCREW TOP MICRO TUBES - CAP ONLY

Screw Top Micro Tube Caps are packed non-sterile, 500/Re-sealable Bag, 1000/Case

CAP COLOR		Grip Cap		Opaque Cap		Translucent Cap
Assorted		230840A		230841A		230842A
Blue		230840B		230841B		230842B
Clear		230840C		NA		230842C
Green		230840G		230841G		230842G
Orange		230840N		230841N		230842N
Purple		230840P		230841P		230842P
Red		230840R		230841R		230842R
Yellow		230840Y		230841Y		230842Y

Lab Grab Multi-Use Extension Grabber



- Allows hands-free and easy grasping of small items, as well as hot or cold samples
- Large extension radius to pick up small to mid-sized objects including cryogenic vials, screw top micro tubes, micro centrifuge tubes, and cell strainers
- Retraction feature aids in stability and strength of grip
- Textured handle prevents slipping when wearing gloves
- All-metal construction allows autoclaving

LAB GRAB MULTI-USE EXTENSION GRABBER

N, A

Part No.	Product Description	Pack Description	Qty/Case
230110	Lab Grab Multi-Use Extension Grabber	2/Bag	2

Pipets



STANDARD SEROLOGICAL PIPETS - P. 32 to 35

All serological pipets are manufactured to the ASTM Standard Specification for Serological Pipets E-934; Accuracy is $\pm 2\%$.

CELLTREAT Serological Pipets are available in a wide range of sizes from 1-100mL, with a variety of unique packaging options to fit all your pipetting needs.

Please refer to pages 32 - 39 for additional information on pipet options.



100mL SEROLOGICAL PIPET IS IDEAL FOR LARGE VOLUME PIPETTING!

Premium polymer fiber barrier plug outperforms cotton plugs



Pipets

SHORT SEROLOGICAL PIPETS - P. 36

- Compact design provides ergonomic benefit and reduces storage space

OPEN END PIPETS - P. 36

- Wide, open end is ideal for slurries, gels, viscous and high particulate solutions

BACTERIOLOGICAL/MILK PIPETS - P. 36

- Used primarily in the examination of dairy products, milk or bacteria

ASPIRATING PIPETS - P. 37

- Ideal for aspiration of media and sample waste removal

PLASTEUR® PIPETS - P. 38 & 39

- Offers the aspirating precision of a glass pipet and the safety benefits of plastic



Best Value Serological Pipets



SEROLOGICAL PIPETS - INDIVIDUALLY WRAPPED (PAPER/PLASTIC) IN BAGS

S, R/D F, NP, USP, PS

Part No.	Product Description	Negative Graduations	Pack Description	Qty/ Case
229001B	1mL Serological Pipet	-0.3mL	100 Individually Wrapped/Bag	500
229002B	2mL Serological Pipet	-0.5mL	100 Individually Wrapped/Bag	500
229005B	5mL Serological Pipet	-3mL	50 Individually Wrapped/Bag	200
229010B	10mL Serological Pipet	-3mL	50 Individually Wrapped/Bag	200
229212B	10mL Serological Pipet, Wide Tip	-3mL	50 Individually Wrapped/Bag	200
229025B	25mL Serological Pipet	-10mL	50 Individually Wrapped/Bag	200
229030B	50mL Serological Pipet	-10mL	25 Individually Wrapped/Bag	100
229220B	100mL Serological Pipet	—	10 Individually Wrapped/Bag	50

SEROLOGICAL PIPETS - BULK PACKED IN BAGS

S, R/D F, NP, USP, PS

Part No.	Product Description	Negative Graduations	Pack Description	Qty/ Case
229231	1mL Serological Pipet	-0.3mL	25 Bulk Packed/Re-sealable Bag	1000
229232	2mL Serological Pipet	-0.5mL	25 Bulk Packed/Re-sealable Bag	800
229235	5mL Serological Pipet	-3mL	25 Bulk Packed/Re-sealable Bag	500
229240	10mL Serological Pipet	-3mL	25 Bulk Packed/Re-sealable Bag	500
229245	25mL Serological Pipet	-10mL	25 Bulk Packed/Re-sealable Bag	200
229250	50mL Serological Pipet	-10mL	25 Bulk Packed/Re-sealable Bag	200

Best Value Serological Pipets

1, 2, 5 & 10mL Serological Pipets

10mL Standard vs. 10mL Wide Tip Pipet

All serological pipets are manufactured to the ASTM Standard Specification for Serological Pipets E-934; Accuracy is $\pm 2\%$

- 1 Bi-directional (ascending & descending) graduations are printed in bold easy-to-read black ink
- 2 10mL Wide Tip Serological Pipet for viscous solutions - Wide Tip opening is 4x larger than standard 10mL pipet
- 3 25 & 50mL pipets feature an anti-drip tip for accurate delivery
- 4 Premium polymer fiber barrier plug outperforms cotton plugs
- 5 Color coded stripes and packaging enable quick volume identification
- 6 Printed indicator arrow for quickly locating negative graduations when using a pipet controller

3

NEW Serological Pipets - Double Case



**SAVE UP TO 65%
ON SHIPPING COSTS**

- Your favorite serological pipets, now available in double case quantities
- Same great features as standard pipets (see page 33), with a cost savings over buying 2 individual cases
- Reduce your order frequency and cardboard waste



SEROLOGICAL PIPETS - INDIVIDUALLY WRAPPED IN BAGS

S, R/D F, NP, USP, PS

	Part No.	Product Description	Pack Description	Qty/Case
NEW	229006B	5mL Serological Pipet	50 Individually Wrapped/Bag	400
NEW	229011B	10mL Serological Pipet	50 Individually Wrapped/Bag	400
NEW	229026B	25mL Serological Pipet	50 Individually Wrapped/Bag	400
NEW	229031B	50mL Serological Pipet	25 Individually Wrapped/Bag	200

Pipets - Plastic/Plastic Wrap

- Peel-to-open plastic/plastic wrappers are the ideal option for eliminating particulate; proven benefit over traditional paper/plastic wrapper
- The all-plastic wrapper can be wiped with alcohol without smearing ink or penetrating wrapper
- Wrappers have reduced static cling compared to other brands of plastic wrap pipets
- Same great features as standard pipets (see page 33)
- 100mL pipet is ideal for large volume pipetting
- **NEW** - Now available in 2mL Aspirating Pipet



SEROLOGICAL PIPETS - PLASTIC/PLASTIC WRAP

S, R/D F, NP, USP, PS

	Part No.	Product Description	Pack Description	Qty/Case
	229201A	1mL Serological Pipet	100 Individually Wrapped/Bag	800
	229202A	2mL Serological Pipet	100 Individually Wrapped/Bag	600
	229205A	5mL Serological Pipet	50 Individually Wrapped/Bag	200
	229210A	10mL Serological Pipet	50 Individually Wrapped/Bag	200
	229225A	25mL Serological Pipet	50 Individually Wrapped/Bag	200
	229230A	50mL Serological Pipet	30 Individually Wrapped/Bag	90
	229220A	100mL Serological Pipet	10 Individually Wrapped/Bag	50

ASPIRATING PIPETS - PLASTIC/PLASTIC WRAP

NEW	229262A	2mL Aspirating Pipet	100 Individually Wrapped/Bag	400
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Classic Serological Pipets



- 1 Bi-directional graduations are printed in bold easy-to-read black ink
- 2 Color coded stripes and packaging enable quick volume identification
- 3 Premium polymer fiber barrier plug outperforms cotton plugs

Assorted packaging options:

- 4 Individually wrapped and packed in bags
- 5 Individually wrapped in convenient shelf carton
- Also available individually wrapped in plastic/plastic wrapper (see page 34 for details)



SEROLOGICAL PIPETS - INDIVIDUALLY WRAPPED IN BAGS

S, R/D F, NP, USP, PS

Part No.	Product Description	Pack Description	Qty/Case
229201B	1mL Serological Pipet	100 Individually Wrapped/Bag	800
229202B	2mL Serological Pipet	100 Individually Wrapped/Bag	600
229205B	5mL Serological Pipet	50 Individually Wrapped/Bag	200
229210B	10mL Serological Pipet	50 Individually Wrapped/Bag	200
229225B	25mL Serological Pipet	50 Individually Wrapped/Bag	200
229230B	50mL Serological Pipet	30 Individually Wrapped/Bag	90



SEROLOGICAL PIPETS -

INDIVIDUALLY WRAPPED IN DISPENSER CARTON

S, R/D F, NP, USP, PS

Part No.	Product Description	Pack Description	Qty/Case
229201	1mL Serological Pipet	200 Individually Wrapped/Dispenser Carton	800
229202	2mL Serological Pipet	150 Individually Wrapped/Dispenser Carton	600
229205	5mL Serological Pipet	100 Individually Wrapped/Dispenser Carton	200
229210	10mL Serological Pipet	100 Individually Wrapped/Dispenser Carton	200
229225	25mL Serological Pipet	50 Individually Wrapped/Dispenser Carton	200
229230	50mL Serological Pipet	45 Individually Wrapped/Dispenser Carton	90

Serological Pipets - Open End



- Ideal for viscous and high particulate solutions
- Wide, open end is ideal for slurries and gels
- Same great features as standard length pipets (see page 33)

SEROLOGICAL PIPETS - OPEN END			S, R/D F, NP, USP, PS
Part No.	Product Description	Pack Description	Qty/Case
229243	5mL Open End Pipet	25 Bulk Packed/Bag	500
229244	10mL Open End Pipet	25 Bulk Packed/Bag	500
NEW 229221B	1mL Open End Pipet	100 Individually Wrapped/Bag	500
NEW 229222B	2mL Open End Pipet	100 Individually Wrapped/Bag	500
229223B	5mL Open End Pipet	50 Individually Wrapped/Bag	200
229224B	10mL Open End Pipet	50 Individually Wrapped/Bag	200

Serological Pipets - Short

- Compact design of short serological pipet provides ergonomic benefit and reduces storage space
- Shorter length helps prevent touching pipet tip to surfaces in the hood
- Ideal for students and those new to pipetting; improved stability while pipetting
- Same great features as standard length pipets (see page 33)
- Pipet Controller available (see page 66)



Short vs. standard length pipet

SEROLOGICAL PIPETS - SHORT S, R/D F, NP, USP, PS

Part No.	Product Description	Pack Description	Qty/Case
229206B	5mL Serological Pipet, Short	50 Individually Wrapped/Bag	200
229211B	10mL Serological Pipet, Short	50 Individually Wrapped/Bag	200
229226B	25mL Serological Pipet, Short	25 Individually Wrapped/Bag	100

Serological Pipets - Bacteriological/Milk



- Bacteriological/Milk pipets are manufactured to meet APHA requirements shown in Standard Methods for Examination of Dairy Products and ASTM E1043-00(2010) Standard Specification for Pipets, Milk and Cream Examination
- Specialized graduations allow quick volume identification
- Same great features as standard pipets

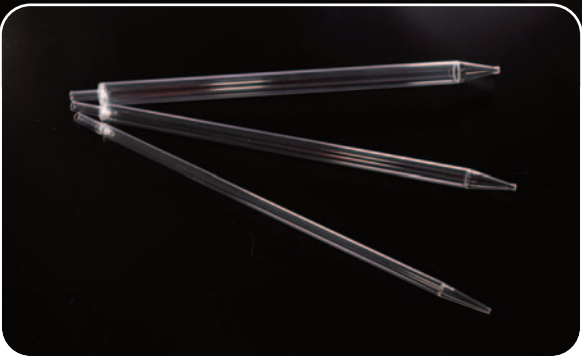
SEROLOGICAL PIPETS - BACTERIOLOGICAL/MILK S, R/D F, NP, USP, PS

Part No.	Product Description	Pack Description	Qty/Case
229257	1.1mL Bacteriological/Milk Pipet	50 Bulk Packed/Bag	500
229258	2.2mL Bacteriological/Milk Pipet	50 Bulk Packed/Bag	400
229267	1.1mL Bacteriological/Milk Pipet	50 Individually Wrapped/Bag	250
229268	2.2mL Bacteriological/Milk Pipet	50 Individually Wrapped/Bag	250

Aspirating Pipets



1, 2 & 5mL Aspirating Pipets

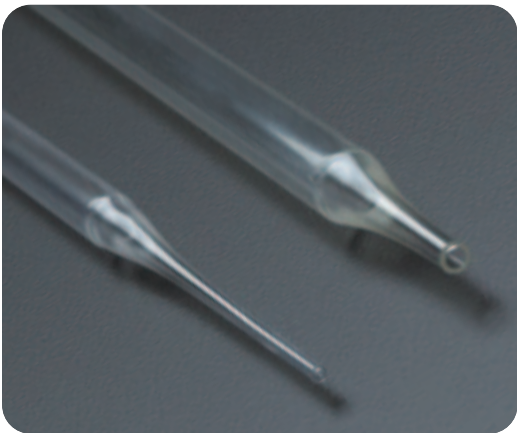


NEW! 10, 25 & 50mL Aspirating Pipets

- Ideal for aspiration of media and sample waste removal without needing to measure the volume
- Aspirating Pipets are supplied without graduations or plugs
- **NEW** - Now available in 10, 25 and 50mL Individually Wrapped sizes
- **NEW** - 2mL Aspirating Pipet available in plastic/plastic wrap (Part No. 229262A)
- Peel-to-open plastic/plastic wrappers are the ideal option for eliminating particulate; proven benefit over traditional paper/plastic wrapper

ASPIRATING PIPETS - PAPER/PLASTIC WRAP				S, R/D F, NP, USP, PS
Part No.	Product Description	Pack Description	Qty/ Case	
229251	1mL Aspirating Pipet	25 Bulk Packed/Bag	400	
229252	2mL Aspirating Pipet	25 Bulk Packed/Bag	400	
229255	5mL Aspirating Pipet	25 Bulk Packed/Bag	200	
229261	1mL Aspirating Pipet	100 Individually Wrapped/Bag	400	
229262	2mL Aspirating Pipet	100 Individually Wrapped/Bag	400	
229265	5mL Aspirating Pipet	50 Individually Wrapped/Bag	200	
NEW 229247	10mL Aspirating Pipet	50 Individually Wrapped/Bag	200	
NEW 229248	25mL Aspirating Pipet	50 Individually Wrapped/Bag	200	
NEW 229249	50mL Aspirating Pipet	25 Individually Wrapped/Bag	100	
ASPIRATING PIPETS - PLASTIC/PLASTIC WRAP				S, R/D F, NP, USP, PS
NEW 229262A	2mL Aspirating Pipet	100 Individually Wrapped/Bag	400	

Polystyrene Plasteur® Pipets



- The Plasteur Plastic Pasteur Pipet offers the aspirating precision of a glass pipet and the safety benefits of plastic
- Available in 5.75 and 9 inch lengths for easier handling and longer reach for working with larger vessels
- Sterile



Plasteur Pipet Selection Guide

Not sure which Plasteur Pipet to choose?
Use the selection guide below to select whether Polystyrene or Polypropylene is the best option for you.

	POLYSTYRENE	POLYPROPYLENE
Autoclavable		X
Chemically Compatible		X
Precision Tip	X	
Flexible		X
High Clarity	X	

PLASTEUR PLASTIC PASTEUR PIPETS - POLYSTYRENE					S, R/D F, NP, USP, PS
Part No.	Product Description	Length	Sterile (Y/N)	Pack Description	Qty/Case
229270	Plasteur Pipet - Polystyrene	5.75 inch	Y	50 Individually Wrapped/Bag	200
229275	Plasteur Pipet - Polystyrene	5.75 inch	Y	25 Bulk Packed/Re-sealable Bag	500
229280	Plasteur Pipet - Polystyrene	9 inch	Y	50 Individually Wrapped/Bag	200
229285	Plasteur Pipet - Polystyrene	9 inch	Y	25 Bulk Packed/Re-sealable Bag	500
229279	Aspirating Bulb	NA	N	12/Re-sealable Bag	12

Polypropylene Plasteur® Pipets



- CELLTREAT® Plasteur Plastic Pasteur Pipets offer the aspirating precision of a glass pipet and the safety benefits of plastic
- Polypropylene provides the chemical resistivity needed for many applications; a chemical compatibility guide is available at www.celltreat.com

SAFETY

- No more broken glass - more durable than standard glass pipets
- Flexible plastic helps prevent glove or skin punctures

CONVENIENCE

- Available packaged sterile individually wrapped or bulk packed
- Also available packaged non-sterile in re-sealable bags or tab lock boxes

EFFICIENCY

- Will not shatter, eliminating losses due to broken glass
- Polypropylene is chemical resistant and autoclavable

VALUE

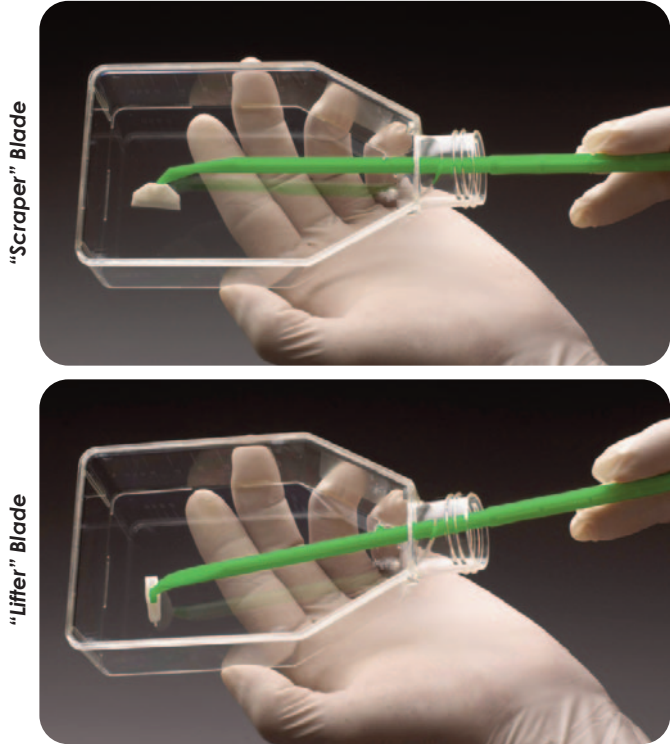
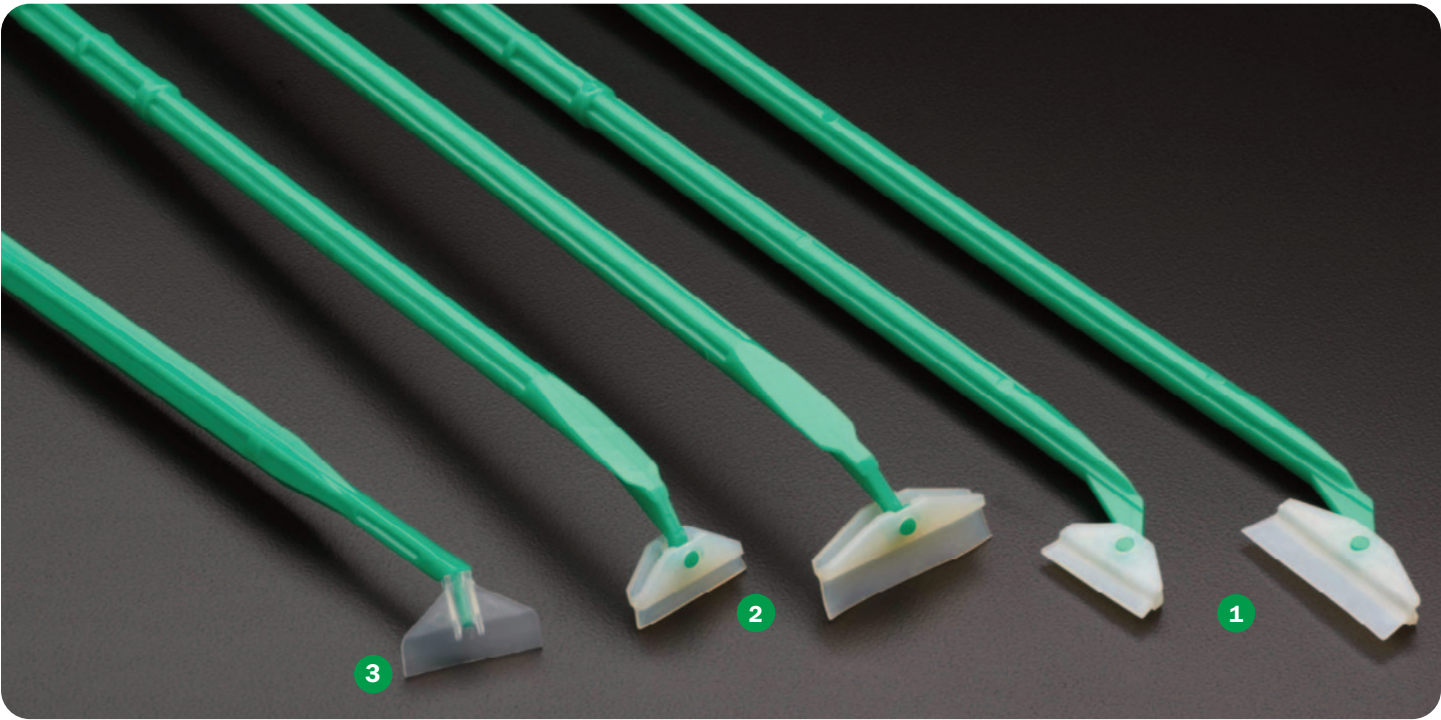
- No damage during shipping and handling as compared to traditional glass pipets
- Eliminate "sharps" disposal cost
- Polypropylene material can be autoclaved

PLASTEUR PLASTIC PASTEUR PIPETS - POLYPROPYLENE

USP, A, PP

	Part No.	Product Description	Length	Sterile (Y/N)	Pack Description	Qty/Case
NEW	229271	Plasteur Pipet - Polypropylene	5.75 Inch	Y	50 Individually Wrapped/Bag	200
	229276	Plasteur Pipet - Polypropylene	5.75 Inch	Y	25 Bulk Packed/Re-sealable Bag	500
	229277	Plasteur Pipet - Polypropylene	5.75 Inch	N	100 Bulk Packed/Re-sealable Bag	500
	229274	Plasteur Pipet - Polypropylene	5.75 Inch	N	200 Bulk Packed/Tab Lock Box	1000
	229281	Plasteur Pipet - Polypropylene	9 Inch	Y	50 Individually Wrapped/Bag	200
	229286	Plasteur Pipet - Polypropylene	9 Inch	Y	25 Bulk Packed/Re-sealable Bag	500
	229287	Plasteur Pipet - Polypropylene	9 Inch	N	100 Bulk Packed/Re-sealable Bag	500
	229284	Plasteur Pipet - Polypropylene	9 Inch	N	200 Bulk Packed/Tab Lock Box	1000

Cell Scrapers



**OPTIMIZES
CELL REMOVAL!**

- Cell Scrapers are designed to gently harvest cells from tissue culture flasks, dishes or bottles
 - Soft, pliable blade won't damage cells or scratch surfaces; outperforms hard plastic blade of other brands
- 1 "Scraper" Blade is positioned parallel to the handle for windshield wiper like scraping (PN 229310 & 229315)
 - 2 "Lifter" Blade is positioned perpendicular to the handle for use with a raking motion (PN 229311 & 229316)
 - 3 Pivoting Blade Cell Scraper features free rotating blade that adjusts to the desired position, providing access to all corners of the flask or tissue culture vessel (PN 229312)

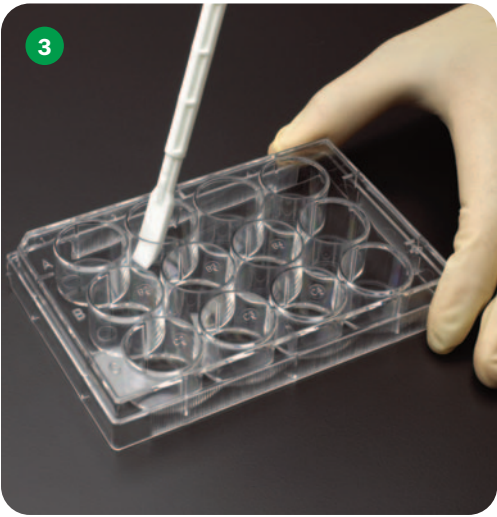
CELL SCRAPERS					S, R/D F, NP, USP, ABS/TPE	
Part No.	Product Description	Handle Length	Blade Length	Blade Orientation	Pack Description	Qty/Case
229310*	Cell Scraper	25cm	20mm	Scraper (parallel)	Individually Wrapped	100
229311	Cell Scraper	25cm	20mm	Lifter (perpendicular)	Individually Wrapped	100
229312	Cell Scraper	30cm	20mm	Pivoting	Individually Wrapped	100
229315	Cell Scraper	39cm	30mm	Scraper (parallel)	Individually Wrapped	100
229316	Cell Scraper	39cm	30mm	Lifter (perpendicular)	Individually Wrapped	100

*Most popular option

Double Ended Cell Lifters



- 1 Unique double end design features 19mm beveled edge flat blade on one end and J-Hook or Narrow Blade on the other
- 2 Narrow blade is tapered to fit into 96 well plates or micro centrifuge tubes and can be used to re-suspend stubborn pellets
- 3 J-Hook is curved on the end to vertically lift cells from 4, 6, 12, 24 and 48 well plates
- 4 19mm beveled edge flat blade ensures even contact with growth surface of flasks and dishes



DOUBLE ENDED CELL LIFTERS			S, R/D F, NP, USP, PP
Part No.	Product Description	Pack Description	Qty/ Case
229305	Cell Lifter, Double End, Flat Blade & Narrow Blade	100 Individually Wrapped/Bag	100
229306	Cell Lifter, Double End, Flat Blade & J-Hook	100 Individually Wrapped/Bag	100

Cell Culture Flasks



- Tissue Culture Treated Flasks have uniform hydrophilic surface ideal for consistent cell attachment
- Stable base enables filling with flask standing upright
- 182cm² flask offers more growth area than standard 175cm² flasks
- 300cm² flask offers a large culture area with the convenience of a single layer flask
- Convenient zip-closure bag is a practical alternative to folding and taping opened bags

- 1** Vent caps feature 0.22µm hydrophobic membrane
- 2** Large opening, canted neck design and moderate angles allow easy access to entire flask surface; ideal for cell scrapers (see page 40)
- 3** Molded, interlocking T design for improved stacking - included on 75, 182 & 300cm² and 250, 600 & 850mL size flasks only
- 4** Flask is printed with lot number and expiration date for easy identification and tracking
- 5** Angled design is easier to access than square or U-shaped flasks

FLASKS - TISSUE CULTURE TREATED

S, R/D F, NP, USP, PS

Part No.	Product Description	Cap Style	Max Volume	Pack Description	Qty/ Case
229321	12.5cm ² Tissue Culture Flask	Vent	25mL	10/Re-sealable Bag	200
229331	25cm ² Tissue Culture Flask	Vent	50mL	10/Re-sealable Bag	200
229341	75cm ² Tissue Culture Flask	Vent	250mL	5/Re-sealable Bag	100
229351	182cm ² Tissue Culture Flask	Vent	600mL	5/Re-sealable Bag	40
229381	182cm ² Tissue Culture Flask - Deep Volume	Vent	700mL	5/Re-sealable Bag	40
229371	225cm ² Tissue Culture Flask	Vent	700mL	5/Re-sealable Bag	25
229361	300cm ² Tissue Culture Flask	Vent	850mL	3/Re-sealable Bag	18
229320	12.5cm ² Tissue Culture Flask	Plug Seal	25mL	10/Re-sealable Bag	200
229330	25cm ² Tissue Culture Flask	Plug Seal	50mL	10/Re-sealable Bag	200
229340	75cm ² Tissue Culture Flask	Plug Seal	250mL	5/Re-sealable Bag	100
229350	182cm ² Tissue Culture Flask	Plug Seal	600mL	5/Re-sealable Bag	40
229370	225cm ² Tissue Culture Flask	Plug Seal	700mL	5/Re-sealable Bag	25
229360	300cm ² Tissue Culture Flask	Plug Seal	850mL	3/Re-sealable Bag	18

Cell Culture Flasks



Standard 182cm² Tissue Culture Flask (Top) vs. Deep Volume 182cm² Tissue Culture Flask (Bottom)

- 182cm² Deep Volume Flask (Weekend Flask) has extra depth that allows for more media volume; cell cultures can be left to grow for longer without drying out (maintain cell cultures over the weekend!)

Flasks - Non-Treated Suspension Culture

FLASKS - NON-TREATED SUSPENSION CULTURE					S, R/D F, NP, USP, PS
Part No.	Product Description	Cap Style	Max Volume	Pack Description	Qty/ Case
229500	25mL Suspension Culture Flask	Vent	25mL	10/Re-sealable Bag	200
229510	50mL Suspension Culture Flask	Vent	50mL	10/Re-sealable Bag	200
229520	250mL Suspension Culture Flask	Vent	250mL	5/Re-sealable Bag	100
229530	600mL Suspension Culture Flask	Vent	600mL	5/Re-sealable Bag	40
229540	850mL Suspension Culture Flask	Vent	850mL	3/Re-sealable Bag	18

Flask Caps



FLASK CAPS				S, R/D F, NP, USP, HDPE
Part No.	Product Description	Cap Style	Fits Flask Size	Qty/ Case
229392	Flask Cap	Plug Seal	12.5cm² & 25mL	5
229389	Flask Cap	Plug Seal	25cm² & 50mL	5
229396	Flask Cap	Plug Seal	75cm² & 250mL	5
229398	Flask Cap	Plug Seal	182 & 300cm² & 600 & 850mL	5
229393	Flask Cap	Vent	12.5cm² & 25mL	5
229390	Flask Cap	Vent	25cm² & 50mL	5
229397	Flask Cap	Vent	75cm² & 250mL	5
229399	Flask Cap	Vent	182 & 300cm² & 600 & 850ml	5

Multiple Well Plates



- 1 Each well has a raised rim which nests into the rings on the single direction lid to reduce evaporation and limit the risk of cross contamination
- 2 Plates are labeled with alpha-numeric markings for easy identification of individual wells
- 3 Lids have a stacking feature for added stability when handling tall stacks of plates

1 Well Plates

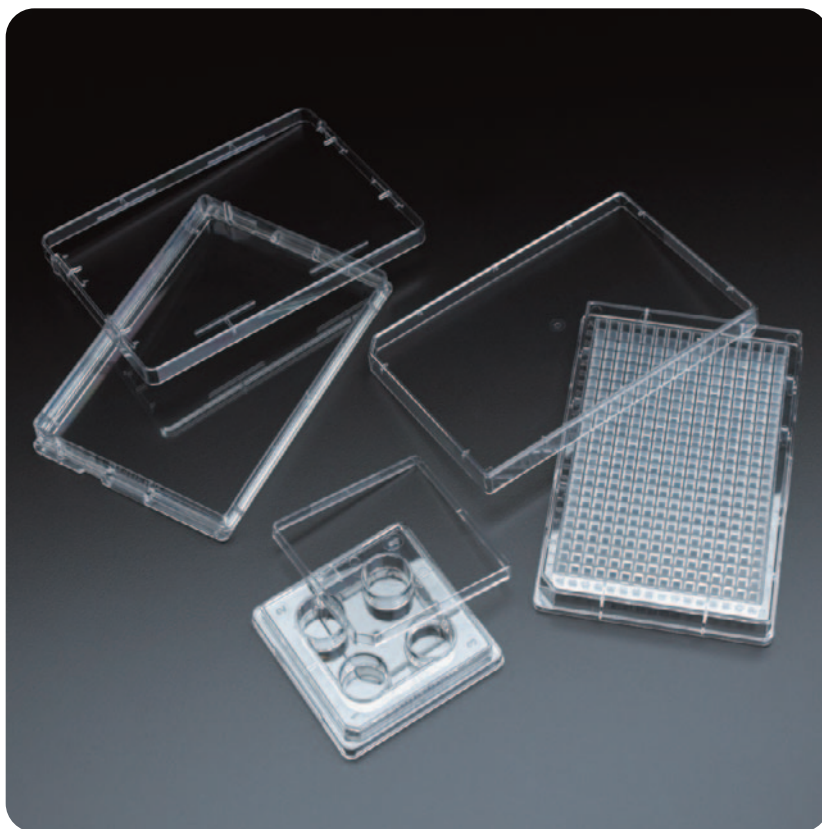
- Useful for high volume and robotic screening of DNA libraries as well as manual plating
- Same footprint as standard multiple well plates
- Suitable for dot-blotting bacterial clones on 11.4 x 7.3cm (4.5 x 2.875in) nylon membranes

4 Well Plates

- Expanded spacing of wells helps reduce cross contamination
- Well diameter similar to 24 well plate
- Smaller footprint than standard multiple well plates

384 Well Plates

- Smaller size wells use less volume, reducing costs
- Increase the number of drug screening targets within the standard footprint
- Ideal for automated applications, colorimetric assays, compound storage or small volume applications



Multiple Well Plates



- Cell culture treatment process provides consistent and even hydrophilic surface for improved cell attachment
- Polystyrene is optically clear for easy cell viewing and imaging
- Round bottom option maximizes sample retrieval and allows mixing (PN 229190)
- Plate is printed with lot number and expiration date for easy identification and tracking
- Sturdy individual blister pack prevents damage when handling or shipping
- Bulk packaging option (5/sleeve) increases efficiency for high volume users (PN 229197)

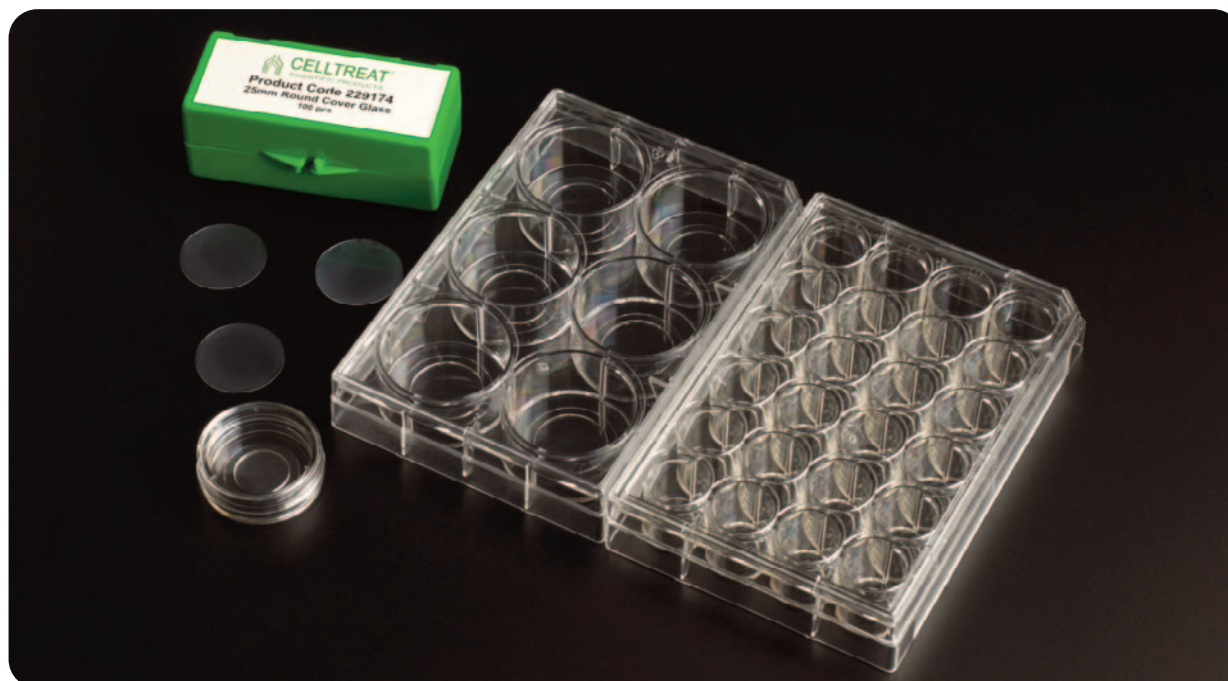
MULTIPLE WELL PLATES - TISSUE CULTURE TREATED*

S, R/D F, NP, USP, PS

Part No.	Product Description	Bottom Shape	Cell Growth Area	Pack Description	Qty/ Case
229101	1 Well Tissue Culture Plate	Flat	97.4cm ²	Individual	50
229103	4 Well Tissue Culture Plate	Flat	1.96cm ²	Individual	50
229105	6 Well Tissue Culture Plate	Flat	9.60cm ²	Individual	50
229106	6 Well Tissue Culture Plate	Flat	9.60cm ²	Individual	100
229111	12 Well Tissue Culture Plate	Flat	3.85cm ²	Individual	50
229112	12 Well Tissue Culture Plate	Flat	3.85cm ²	Individual	100
229123	24 Well Tissue Culture Plate	Flat	1.93cm ²	Individual	50
229124	24 Well Tissue Culture Plate	Flat	1.93cm ²	Individual	100
229147	48 Well Tissue Culture Plate	Flat	0.84cm ²	Individual	50
229148	48 Well Tissue Culture Plate	Flat	0.84cm ²	Individual	100
229195	96 Well Tissue Culture Plate	Flat	0.33cm ²	Individual	50
229196	96 Well Tissue Culture Plate	Flat	0.33cm ²	Individual	100
229197	96 Well Tissue Culture Plate	Flat	0.33cm ²	5/Bag	100
229190	96 Well Tissue Culture Plate	Round	0.58cm ²	Individual	100
229138	384 Well Tissue Culture Plate	Flat	0.1135cm ²	Individual	50

*See page 49 for Non-Treated Multiple Well Plates

Glass Bottom Cell Culture Dishes & Plates



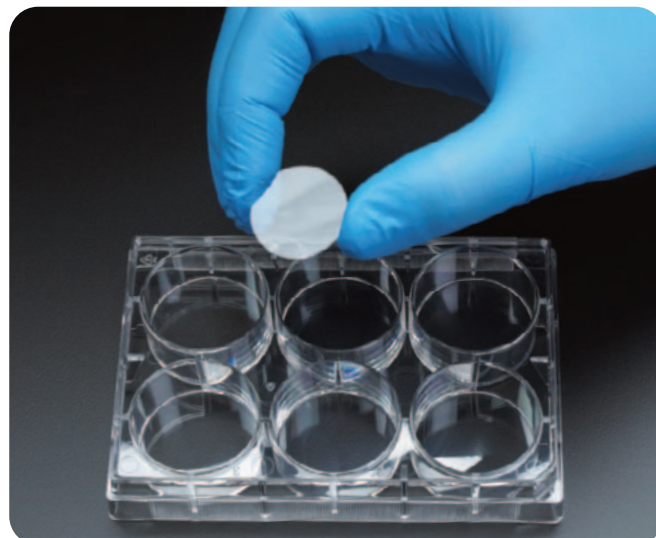
- Conveniently view live cells without needing to transfer
- Optically clear borosilicate glass bottom is #1.5 thickness
- Applications include: cell culture and imaging, live cell observation and specialty microscopy such as confocal high resolution and contrast
- Traditional footprints cause minimal disruption in cell culture techniques
- Constructed with non-cytotoxic medical adhesive
- Round cover glass also available for use with glass bottom plates and dishes (see below)

DISHES - GLASS BOTTOM TISSUE CULTURE			S, R/D F, NP, USP, PS, GLS
Part No.	Product Description	Pack Description	Qty/Case
229632	30mm x 10mm Tissue Culture Dish, 15mm Glass Bottom	10/Re-sealable Bag	50
PLATES - GLASS BOTTOM TISSUE CULTURE			S, R/D F, NP, USP, PS, GLS
229107	6 Well Tissue Culture Plate with Lid, 20mm Glass Bottom	Individual	5
229125	24 Well Tissue Culture Plate with Lid, 10mm Glass Bottom	Individual	5

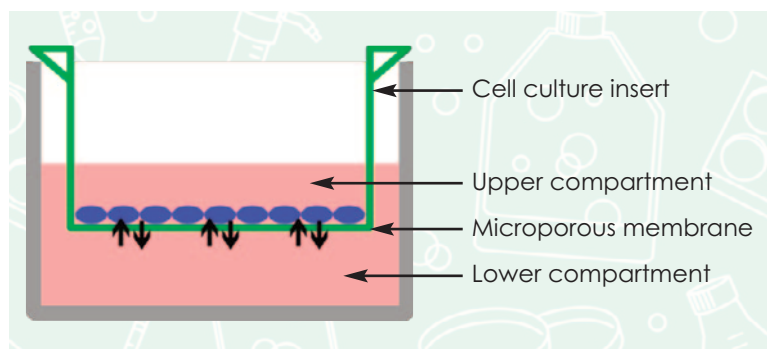
Round Cover Glass

- High-quality, optically clear borosilicate glass cover slips are ideal for specialty microscopy and imaging with Dishes, Multiple Well Plates or anywhere a square cover glass is unsuitable
- Consistent flatness and scratch-free
- Resistant to organic solvents
- Packaged in a hinged plastic storage case
- Cover Glass is #1.5 thickness

ROUND COVER GLASS				S, R/D F, NP, A, GLS
Part No.	Size	Fits	Qty/Case	
229172	15mm	24 Well Plate	100/Pack	
229173	20mm	12 Well Plate or 35mm Dish	100/Pack	
229174	25mm	6 Well Plate	100/Pack	



Permeable Cell Culture Inserts



- Inserts are designed to fit in multiple well plates, centered in wells, preventing membrane from touching sides and wicking between insert and side wall
- Membrane remains suspended above well bottom, allowing co-culture: grow one cell line inside insert, and another below in the well
- Ideal for drug transfer assays, transport studies, migration assays, cell-cell interaction studies, and to mimic *in vivo* conditions

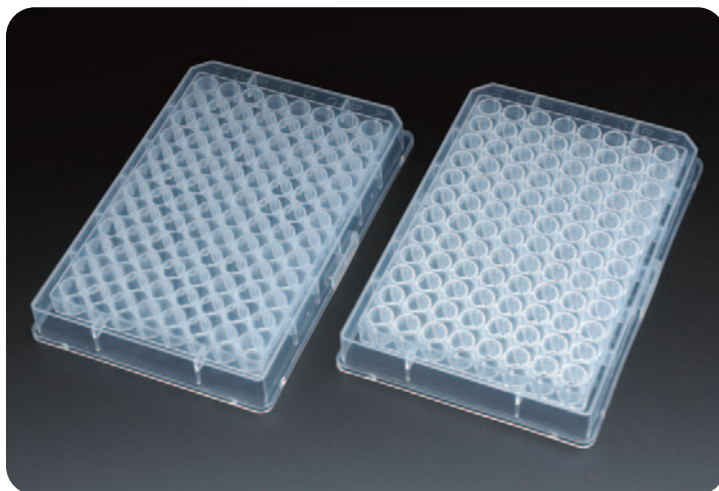
- Insert features openings to allow access to lower compartment without removal from plate
- 24 Well Plates come with 12 inserts to prevent cross-contamination; pass over empty wells instead of in-use inserts
- PC membrane is best for cell attachment; PET is best for fluorescence imaging and phase contrast microscopy
- 0.4µm pore size is ideal for co-culture and drug transport studies
- 0.4µm PET inserts feature clear membranes for improved cell viewing
- 3.0µm and 8.0µm pore size are ideal for angiogenesis and chemotaxis experiments
- Carrier plate is Tissue Culture Treated which encourages cell adhesion; Non-Treated Plates sold separately

PERMEABLE CELL CULTURE INSERTS

S, R/D F, NP, USP, PS

Part No.	Product Description	Membrane Material	Membrane Pore Size	Pack Description	Qty/Case
230601	Inserts Packed in 6 Well Plate	PC	0.4µm	6 Inserts/Plate, 2 Plates/Case	12
230603	Inserts Packed in 6 Well Plate	PC	3.0µm	6 Inserts/Plate, 2 Plates/Case	12
230605	Inserts Packed in 6 Well Plate	PC	8.0µm	6 Inserts/Plate, 2 Plates/Case	12
230607	Inserts Packed in 6 Well Plate	PET	0.4µm	6 Inserts/Plate, 2 Plates/Case	12
230609	Inserts Packed in 6 Well Plate	PET	3.0µm	6 Inserts/Plate, 2 Plates/Case	12
230611	Inserts Packed in 6 Well Plate	PET	8.0µm	6 Inserts/Plate, 2 Plates/Case	12
230629	Inserts Packed in 24 Well Plate	PC	0.4µm	12 Inserts/Plate, 2 Plates/Case	24
230631	Inserts Packed in 24 Well Plate	PC	3.0µm	12 Inserts/Plate, 2 Plates/Case	24
230633	Inserts Packed in 24 Well Plate	PC	8.0µm	12 Inserts/Plate, 2 Plates/Case	24
230635	Inserts Packed in 24 Well Plate	PET	0.4µm	12 Inserts/Plate, 2 Plates/Case	24
230637	Inserts Packed in 24 Well Plate	PET	3.0µm	12 Inserts/Plate, 2 Plates/Case	24
230639	Inserts Packed in 24 Well Plate	PET	8.0µm	12 Inserts/Plate, 2 Plates/Case	24

NEW Polypropylene Plates



- 96 Well Polypropylene Plates can be used for the growth of bacterial cultures or storage of compounds
- Round Bottom with round wells enables use with magnetic beads
- V-Bottom maximizes sample retrieval
- Polypropylene offers a low binding surface to prevent samples from sticking to the side walls during elution, and is chemically inert for combinatorial chemistry applications
- Low profile design for easy sample retrieval

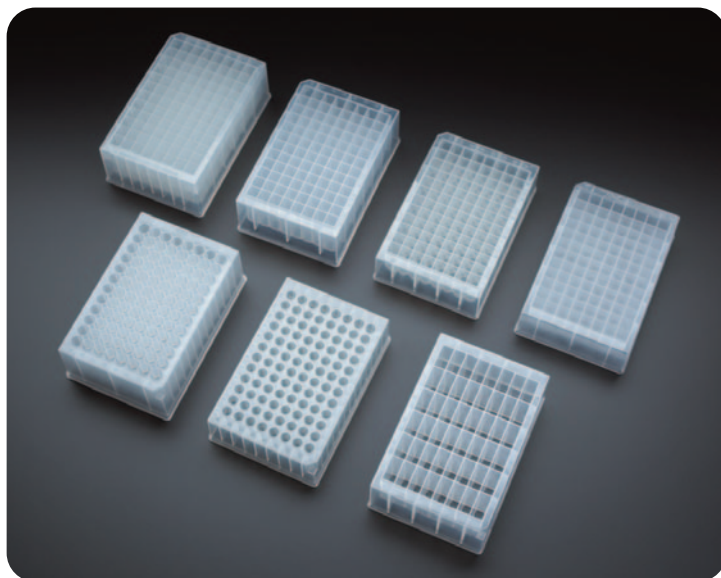
96 DEEP WELL STORAGE PLATES

N, R/D F, NP, USP, A, PP

	Part No.	Product Description	Well Volume	Well Shape	Bottom Shape	Pack Description	Qty/ Case
NEW	229576	96 Well Plate	0.4mL	Round	Round	5/Bag	50
NEW	229577	96 Well Plate	0.36mL	Round	V-Bottom	5/Bag	50

Deep Well Storage Plates

- 96 Deep Well Storage Plates can be used for the growth of bacterial cultures or storage of compounds
- Square to round transition of V-Bottom maximizes working volume
- Pyramid Bottom eases sample retrieval and improves mixing by creating a sloshing effect rather than a vortex when agitated
- Round Bottom with round wells enable use with magnetic beads
- Polypropylene offers a low binding surface to prevent samples from sticking to the side walls during elution, and is chemically inert for combinatorial chemistry applications
- **NEW** - 48 Well Deep Storage Plate features larger, rectangular well for increased well volume



96 DEEP WELL STORAGE PLATES

N, R/D F, NP, USP, A, PP

	Part No.	Product Description	Well Volume	Well Shape	Bottom Shape	Pack Description	Qty/ Case
NEW	229578	48 Deep Well Storage Plate	4.6mL	Rectangle	U-Bottom	5/Bag	25
	229570	96 Deep Well Storage Plate	1.0mL	Round	V-Bottom	5/Bag	25
	229571	96 Deep Well Storage Plate	1.1mL	Square	V-Bottom	5/Bag	25
	229573	96 Deep Well Storage Plate	1.5mL	Square	Round Bottom	5/Bag	25
	229572	96 Deep Well Storage Plate	2.0mL	Square	Pyramid Bottom	5/Bag	25
	229574	96 Deep Well Storage Plate	2.0mL	Square	V-Bottom	5/Bag	25
	229575	96 Deep Well Storage Plate	2.0mL	Round	Round Bottom	5/Bag	25

Non-Treated Multiple Well Plates



- Polystyrene is optically clear for easy cell viewing and imaging
- Round bottom option maximizes sample retrieval and allows mixing (PN 229590 & 229591)
- Plate is printed with lot number and expiration date for easy identification and tracking
- Sturdy individual blister pack prevents damage when handling or shipping
- Bulk packaging option (5/sleeve) increases efficiency for high volume users (PN 229597)

MULTIPLE WELL PLATES - NON-TREATED

S, R/D F, NP, USP, PS

Part No.	Product Description	Bottom Shape	Working Volume	Pack Description	Qty/ Case
229501	1 Well Non-treated Plate	Flat	19.5 - 48.7mL	Individual	50
229503	4 Well Non-treated Plate	Flat	500 - 800µL	Individual	50
229506	6 Well Non-treated Plate	Flat	2 - 8mL	Individual	100
229512	12 Well Non-treated Plate	Flat	2 - 4mL	Individual	100
229524	24 Well Non-treated Plate	Flat	0.5 - 1.5mL	Individual	100
229548	48 Well Non-treated Plate	Flat	0.3 - 1.0mL	Individual	100
229590	96 Well Non-treated Plate	Round	50 - 300µL	Individual	100
229591	96 Well Non-treated Plate without Lid	Round	50 - 300µL	Individual	100
229592	96 Well Non-treated Plate without Lid	Flat	50 - 300µL	Individual	100
229596	96 Well Non-treated Plate	Flat	50 - 300µL	Individual	100
229597	96 Well Non-treated Plate	Flat	50 - 300µL	5/Bag	100
229538	384 Well Non-treated Plate	Flat	15 - 110µL	Individual	50

*See page 45 for Tissue Culture Treated Multiple Well Plates

Sealing Films

BREATHABLE SEALING FILM

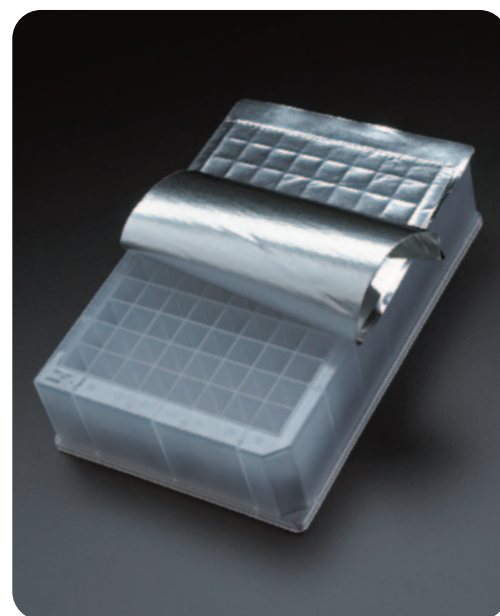
- Breathable Sealing Film promotes uniform gas exchange and can be pierced easily with pipette tips
- Reduces outer well evaporation and cross contamination
- Recommended for use between -20°C and 80°C
- Constructed with non-cytotoxic medical grade adhesive

FOIL SEALING FILM

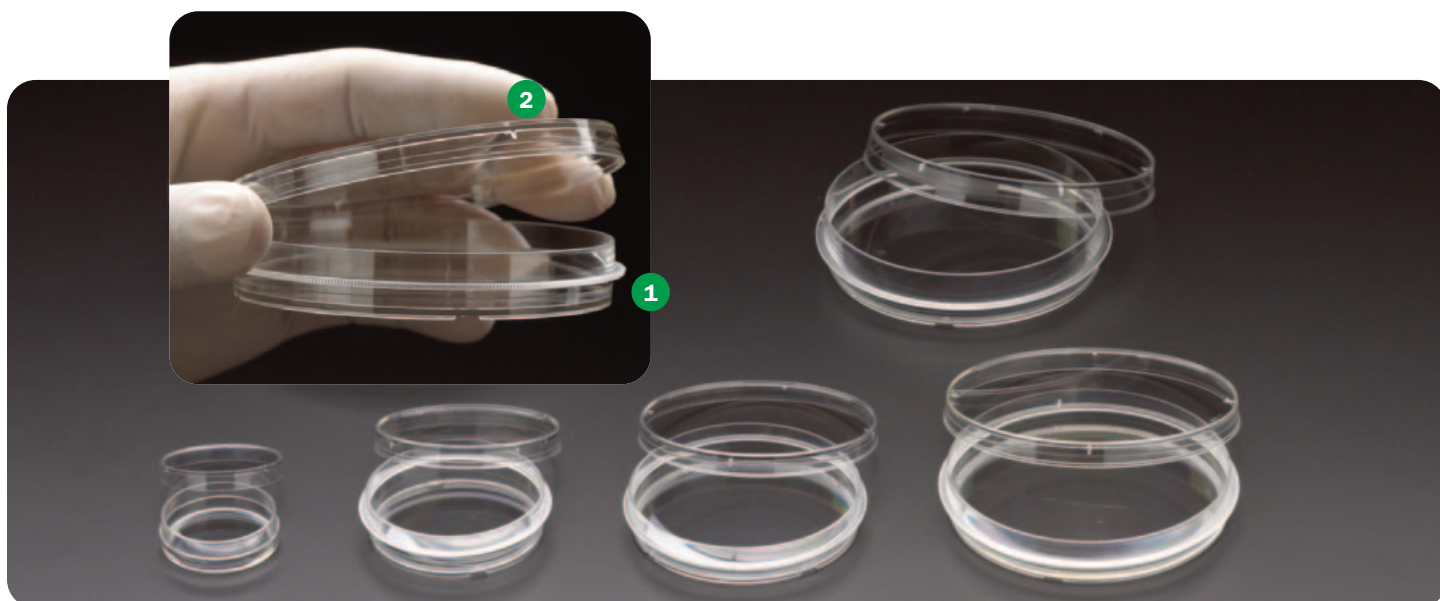
- Foil Sealing Film (50µm thickness) reduces sample evaporation, can be pierced easily with pipette tips & automation, and is heat and cold resistant
- Recommended use for temperature range -80°C to 120°C

SEALING FILMS

Part No.	Product Description	Sterile (Y/N)	Pack Description	Qty/ Case
229130	Breathable Sealing Film	Y	50/Re-sealable Bag	50
229132	Foil Sealing Film	Y	50/Re-sealable Bag	50
229133	Foil Sealing Film	N	100/Re-sealable Bag	100



Treated Cell Culture Dishes



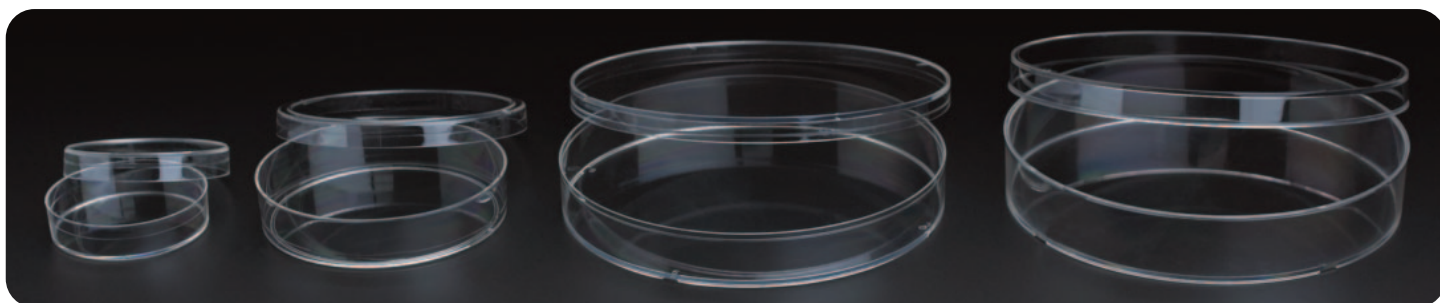
- Cell culture treatment process provides consistent and even hydrophilic surface for improved cell attachment
- Manufactured from medical grade virgin polystyrene

- 1 35, 60, 70 and 100mm dishes available with a gripping feature for improved handling
- 2 Vented lids contain molded spacers to allow gas exchange, and stacking rings for increased stability

DISHES - TREATED CELL CULTURE WITH GRIPPING FEATURE

S, R/D F, NP, USP, PS

Part No.	Product Description	Working Volume	Growth Area	Pack Description	Qty/ Case
229635	35mm x 10mm Tissue Culture Treated Dish	5mL	8.5cm ²	10/Re-sealable Bag	500
229660	60mm x 15mm Tissue Culture Treated Dish	7 - 8mL	21cm ²	10/Re-sealable Bag	500
229670	70mm x 15mm Tissue Culture Treated Dish	7 - 8mL	36.3cm ²	10/Re-sealable Bag	500
229690	100mm x 15mm Tissue Culture Treated Dish	15 - 16mL	55cm ²	10/Re-sealable Bag	500
229620	100mm x 20mm Tissue Culture Treated Dish	15 - 16mL	60.5cm ²	10/Re-sealable Bag	300



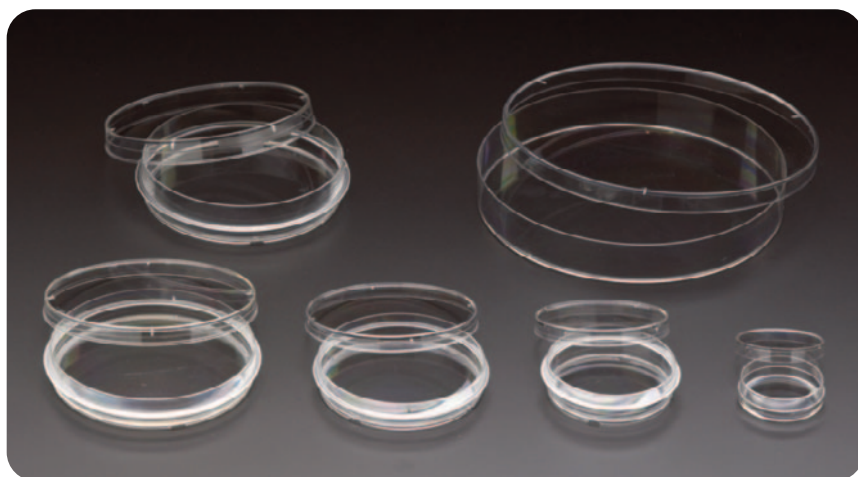
DISHES - TREATED CELL CULTURE WITHOUT GRIPPING FEATURE

S, R/D F, NP, USP, PS

Part No.	Product Description	Working Volume	Growth Area	Pack Description	Qty/ Case
229661	60mm x 15mm Tissue Culture Treated Dish	7 - 8mL	21cm ²	20/Re-sealable Bag	500
229621	100mm x 20mm Tissue Culture Treated Dish	15 - 16mL	60.5cm ²	10/Re-sealable Bag	300
229650	150mm x 20mm Tissue Culture Treated Dish	25 - 28mL	143cm ²	1/Bag	60
229651	150mm x 20mm Tissue Culture Treated Dish	25 - 28mL	143cm ²	5/Re-sealable Bag	100
229652	150mm x 25mm Tissue Culture Treated Dish	52 - 132mL	154cm ²	5/Bag	60

Non-Treated Cell Culture Dishes

- Non-Treated Cell Culture Dishes have thicker and more durable plastic than standard Petri Dishes - both can be used for the same applications
- 35, 60, 70 and 100mm dishes available with a gripping feature for improved handling
- Vented lids contain molded spacers to allow gas exchange, and stacking rings for increased stability
- Manufactured from medical grade virgin polystyrene



DISHES - NON-TREATED CELL CULTURE WITH GRIPPING FEATURE

S, R/D F, NP, USP, PS

Part No.	Product Description	Working Volume	Growth Area	Pack Description	Qty/Case
229638	35mm x 10mm Petri Dish	5mL	8.5cm ²	10/Bag	960
229663	60mm x 15mm Petri Dish	7 - 8mL	21cm ²	10/Bag	500
229692	100mm x 15mm Petri Dish	15 - 16mL	55cm ²	10/Bag	300
229693	100mm x 15mm Petri Dish	15 - 16mL	55cm ²	10/Bag	500
229623	100mm x 20mm Petri Dish	15 - 16mL	60.5cm ²	10/Bag	300

DISHES - NON-TREATED CELL CULTURE WITHOUT GRIPPING FEATURE

S, R/D F, NP, USP, PS

229656	150mm x 15mm Petri Dish	25 - 28mL	153cm ²	10/Bag	100
229653	150mm x 20mm Petri Dish	25 - 28mL	143cm ²	5/Bag	100

CELLTREAT Accessories



TIMER

- Multiple functions include timer, clock and alarm
- Includes easel stand, mounting magnet and retractable hook for hanging
- Uses 1 standard AAA Battery (not included)

ACCESSORIES

Part No.	Product Description	Qty/Case
230123	Multi-Function Timer	1

BAG CUTTER

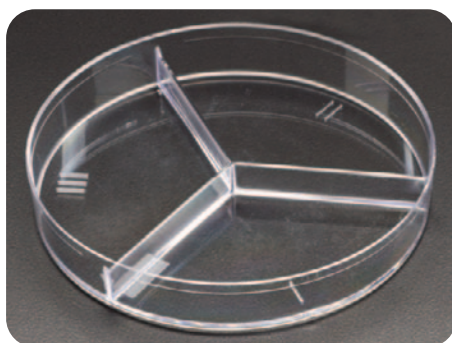
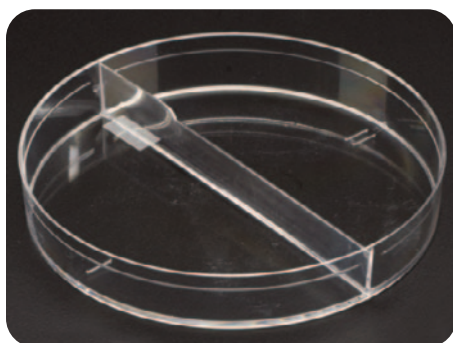
- Safely and easily cuts plastic bags and pouches
- Features unique contoured design, sharp non-removable stainless steel blade and lanyard hang hole for convenience
- Includes integrated tape splitter for easy box opening



ACCESSORIES

Part No.	Product Description	Qty/Case
230100	Bag Cutter	5

Compartment Petri Dishes

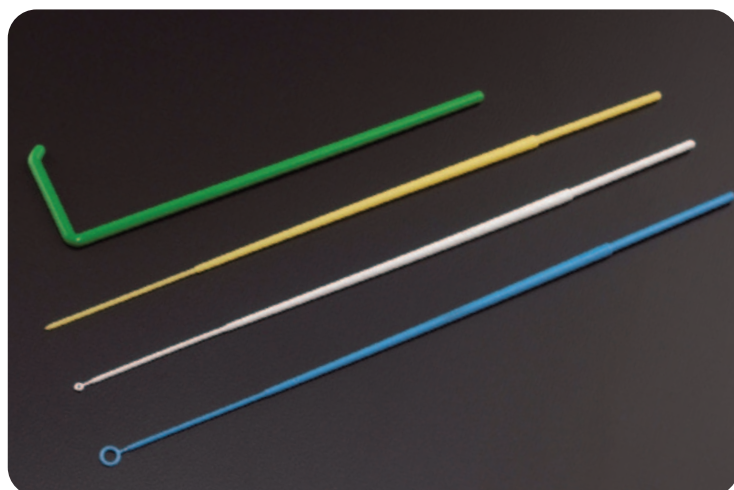


- Designed for simultaneous studies of organisms in a common environment
- Molded dividers create completely separate compartments while allowing airflow
- Marked compartments for easy identification
- Ridge on bottom of dish allows easy handling and stacking
- Lids contain 3 molded spacers to allow gas exchange
- Working volume and growth area listed in table below are per compartment

DISHES - COMPARTMENT PETRI					S, R/D F, NP, USP, PS	
Part No.	Product Description	Working Volume	Growth Area	Stackable (Y/N)	Pack Description	Qty/Case
229682	100mm x 15mm Petri Dish, 2 Compartments	7-8mL	28.3cm ²	Y	20/Bag	500
229683	100mm x 15mm Petri Dish, 3 Compartments	5mL	18.9cm ²	Y	20/Bag	500
229684	100mm x 15mm Petri Dish, 4 Compartments	4mL	14.1cm ²	Y	20/Bag	500

Loops, Needles and Spreaders

- Flexible design provides easy access to tubes and dishes
- Color coded for easy identification
- Flexible design is gentle on delicate agar or other surfaces
- L-Shaped Cell Spreader is ideal for evenly spreading bacterial cultures
- Loops and L-Shaped Cell Spreader available individually wrapped in peel-to-open paper/plastic wrappers



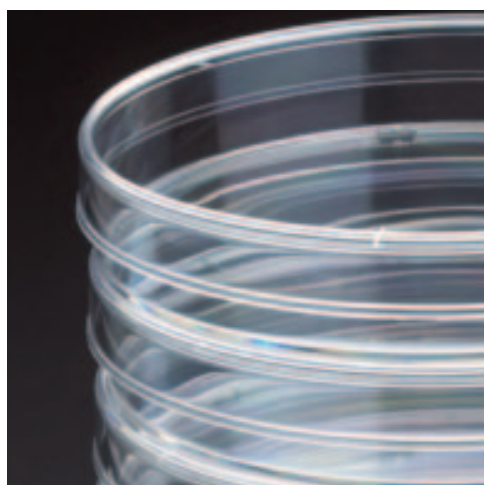
L-SHAPED CELL SPREADERS					S, R/D F, NP, USP, PP	
Part No.	Product Description	Color	Length	Pack Description	Qty/Case	
229617	L-Shaped Spreader	Green	145mm	10/Pack	500	
229616	L-Shaped Spreader	Green	145mm	100 Individually Wrapped/Bag	100	
INOCULATING LOOPS AND NEEDLES					S, R/D F, NP, USP, PP	
229601	1uL Inoculating Loop	White	218mm	20/Pack	2000	
229602	1uL Inoculating Loop	White	218mm	100 Individually Wrapped/Bag	600	
229610	10uL Inoculating Loop	Blue	221mm	20/Pack	2000	
229612	10uL Inoculating Loop	Blue	221mm	100 Individually Wrapped/Bag	600	
229615	Inoculating Needle	Yellow	221mm	20/Pack	2000	

Petri Dishes

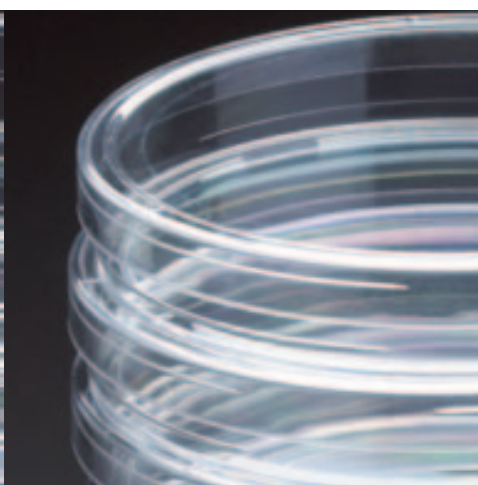


CELLTREAT ADVANTAGE FEATURE:

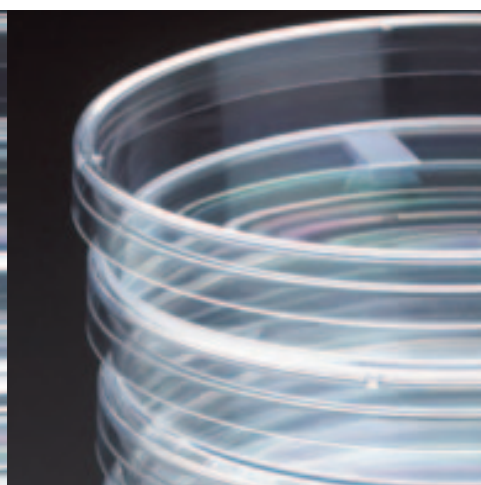
Durable packaging offers greater protection from damage versus competitive brands



Part No. 229695



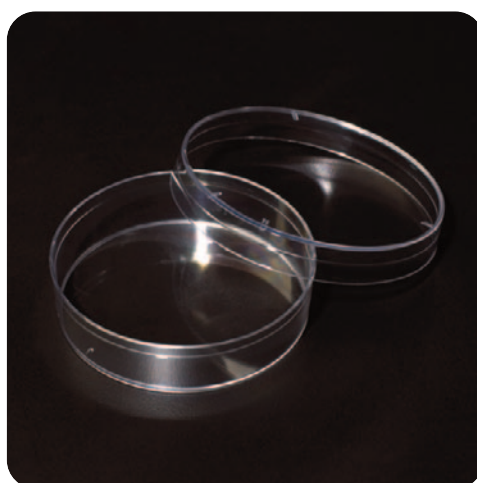
Part No. 229694



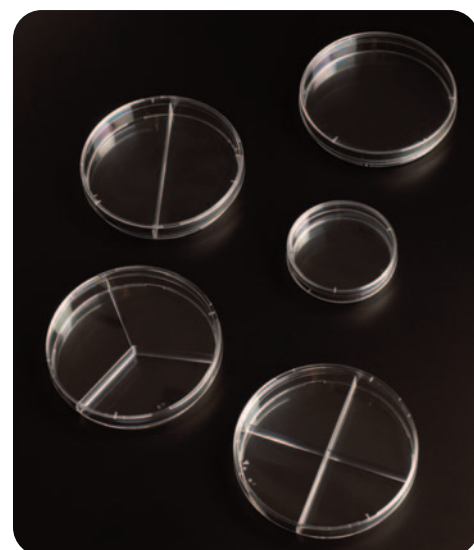
Part No. 229697

STACKABLE	STACKABLE/SLIDEABLE	SLIPPABLE
Lids contain stacking rings for increased stability	Features partial edge ring on base which allows a single dish to be slid from a large stack and enhances stability when stacked	Designed for automated filling and streaking systems, features side arrows and ISO Mark Target for automation

- CELLTREAT Petri Dishes are manufactured in high capacity automated production lines resulting in high quality, value priced products
- Ventilation ribs reduce condensation and allow air circulation
- Consistent flatness allows for even media distribution



60mm x 15mm - Part No. 229665
Photo enlarged to enhance features



Compartment Dishes page 52

DISHES - PETRI

S, R/D F, NP, USP, PS

Part No.	Product Description	Dish Style	Working Volume	Growth Area	Pack Description	Qty/ Case
229665	60mm x 15mm Petri Dish	Stackable	7 - 8 mL	21cm ²	20/Bag	500
229694	100mm x 15mm Petri Dish	Stackable/Slideable	15 - 16mL	55cm ²	20/Bag	500
229695	100mm x 15mm Petri Dish	Stackable	15 - 16mL	55cm ²	20/Bag	500
229697	100mm x 15mm Petri Dish	Slippable	15 - 16mL	55cm ²	20/Bag	500

Erlenmeyer Flasks



Polycarbonate Erlenmeyer Flasks



PETG Erlenmeyer Flasks

- Designed for mammalian suspension culture applications as well as bacterial & yeast culture
- PETG available with either vent or solid cap to prevent common mistakes made with combination caps such as sealing the cap completely and preventing gas exchange
- Polycarbonate available with vent cap only
- Vent caps with over-sized vent area feature 0.22µm hydrophobic membrane which allows for improved gas exchange without contamination
- Avoid contamination with single-use, pre-sterilized flasks
- Lightweight material is easier to handle than glass
- Flasks include molded graduation lines
- Individually bagged for easy storage and handling
- Medical grade virgin Polycarbonate is autoclavable
- Medical grade virgin PETG reduces gas permeability

POLYCARBONATE ERLLENMEYER FLASKS - VENT CAP							A, S, R/D F, NP, PC	
	Part No.	Product Description	Flask Material	Cap Type	Bottom Type	Max. Volume	Pack Description	Qty/ Case
NEW	229821	125mL Erlenmeyer Flask	Polycarbonate	Vent	Plain	125mL	1/Bag	12
NEW	229825	250mL Erlenmeyer Flask	Polycarbonate	Vent	Plain	265mL	1/Bag	12
NEW	229829	500mL Erlenmeyer Flask	Polycarbonate	Vent	Plain	525mL	1/Bag	12
PETG ERLLENMEYER FLASKS - VENT CAP							S, R/D F, NP, PETG	
	229801	125mL Erlenmeyer Flask	PETG	Vent	Plain	125mL	1/Bag	12
	229805	250mL Erlenmeyer Flask	PETG	Vent	Plain	265mL	1/Bag	12
	229809	500mL Erlenmeyer Flask	PETG	Vent	Plain	525mL	1/Bag	12
	229813	1000mL Erlenmeyer Flask	PETG	Vent	Plain	1035mL	1/Bag	6
PETG ERLLENMEYER FLASKS - SOLID CAP							S, R/D F, NP, PETG	
	229800	125mL Erlenmeyer Flask	PETG	Solid	Plain	125mL	1/Bag	12
	229804	250mL Erlenmeyer Flask	PETG	Solid	Plain	265mL	1/Bag	12
	229808	500mL Erlenmeyer Flask	PETG	Solid	Plain	525mL	1/Bag	12
	229812	1000mL Erlenmeyer Flask	PETG	Solid	Plain	1035mL	1/Bag	6

Erlenmeyer & Fernbach Flasks - Polycarbonate



- Designed for mammalian suspension culture applications as well as bacterial & yeast culture
- Conveniently pre-sterilized
- Autoclaving flasks may be limited due to application and autoclave techniques
- Available with plain or baffled bottom

- 1** 70mm opening for easy filling and dispensing
- 2** Over-sized vent area in cap for improved gas exchange
- 3** Fernbach flask shape increases surface area to volume ratio
- 4** Baffled bottom improves mixing and aeration

Part No. 229896 - Transfer Assembly

Other custom transfer assembly options available. Please contact us for information.

ERLENMEYER & FERNBACH FLASKS						S, NP, USP, A, PC	
Part No.	Product Description	Cap Type	Bottom Type	Max. Volume	Pack Description	Qty/Case	
229850	2L Erlenmeyer Flask	Vent	Plain	2200mL	1/Bag	6	
229855	2L Erlenmeyer Flask	Vent	Baffled	2200mL	1/Bag	6	
229860	2L Fernbach Flask	Vent	Plain	2400mL	1/Bag	6	
229865	2L Fernbach Flask	Vent	Baffled	2400mL	1/Bag	6	
229870	3L Fernbach Flask	Vent	Plain	4000mL	1/Bag	4	
229875	3L Fernbach Flask	Vent	Baffled	4000mL	1/Bag	4	
ERLENMEYER AND FERNBACH FLASK CAPS						S, R/D F, NP, USP, HDPE	
229894	CAP ONLY, 70mm, Erlenmeyer/Fernbach	Solid	NA	NA	1/Bag	24	
229895	CAP ONLY, 70mm, Erlenmeyer/Fernbach	Vent	NA	NA	1/Bag	24	
TRANSFER ASSEMBLY						S	
229896	Transfer Assembly for 3L Fernbach Flask	NA	NA	NA	1/Bag	1	

500mL Square Media Bottle



**UNIQUE INDIVIDUALLY BAGGED PACKAGING
ALLOWS OPENING ONE AT A TIME!**

- Ideal for media prep and storage of laboratory reagents and biological buffers
- Square design saves valuable shelf space
- High clarity for easy viewing of contents
- Plastic bottles are a shatterproof alternative to glass media bottles
- PETG material reduces gas permeability

- 1** Molded graduations on two sides
- 2** Flat surface polyethylene (HDPE) caps are ideal for marking



SQUARE MEDIA BOTTLE **S, R/D F, NP, USP, PETG**

Part No.	Product Description	Pack Description	Qty/Case
229788	500mL Media Bottle, Square	1/Bag	24

NEW Slide Tray



**EASILY STACK & STORE
YOUR SLIDES!**

- Slide tray provides a sturdy and durable method to handle slides
- Depth of tray is designed to fit CELLTREAT Chamber Slides
- Side of the tray has a large area for writing on or labeling contents
- Trays feature recessed spaces to make it easier to access slides
- The tray design enables them to be stacked, and when stacked, the top tray is fully supported by the tray below
- Stacking design of tray isolates and protects slides

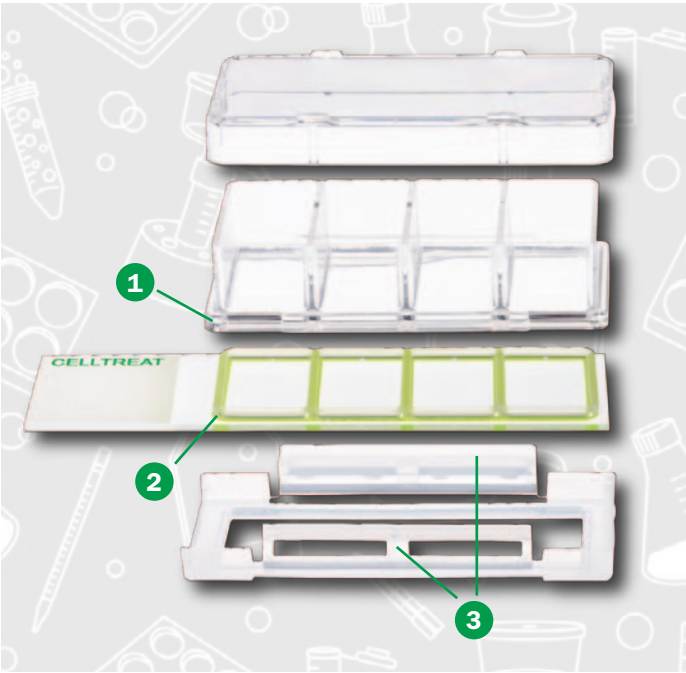
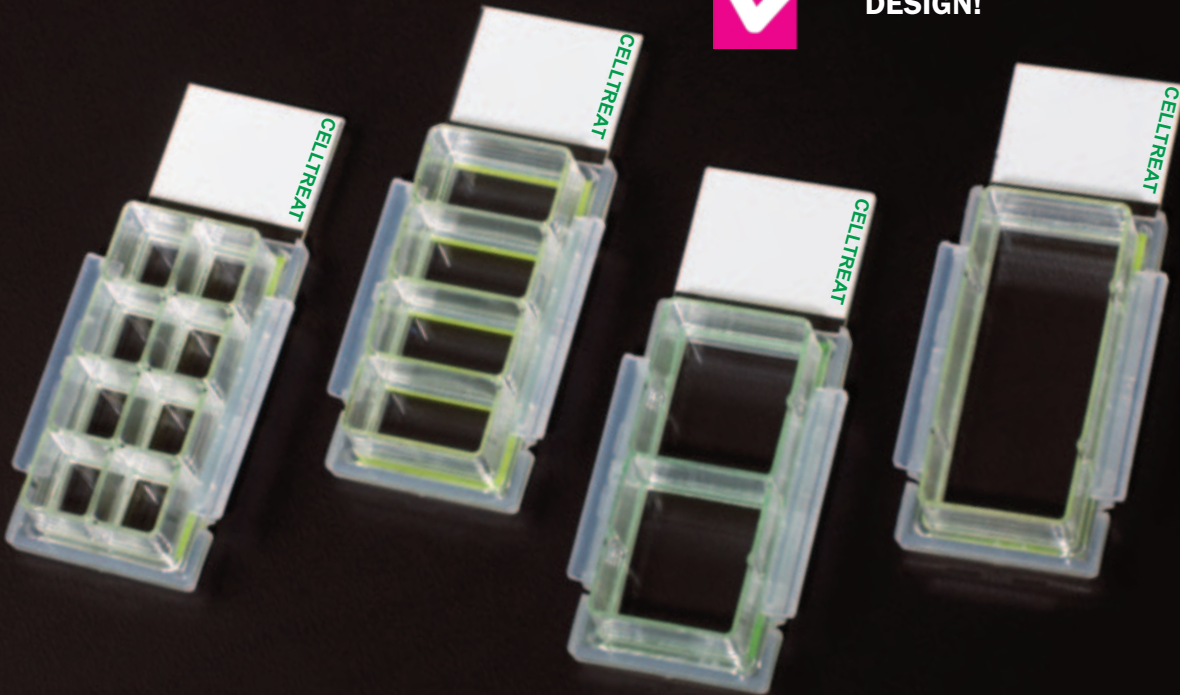
SLIDE TRAY **N, A, PP**

Part No.	Product Description	Qty/Case
NEW 229167	Slide Tray, White, 8 Place	6

Chambered Cell Culture Slides



**EASY-TO-USE
DESIGN!**



- Grow cells directly on the slide without any need for future transfer; ideal for growing and viewing cells under a microscope on standard 25mm x 75mm slide
- Uniform hydrophilic surface ideal for consistent cell attachment
- Slides are labeled with numeric markings
- Packing trays can be used as incubation racks in CO₂ incubators
- Adhesive free
- Reusable slide tray available, see page 56

- 1 Integrated gasket prevents cross-contamination between chambers
- 2 Inert hydrophobic green border printed on slide to define cell culture area
- 3 Chamber holder features easy flip locks assembly and disassembly; no separation tool required

CHAMBERED CELL CULTURE SLIDES		S, R/D F, NP, USP, PS, PP, GLS	
Part No.	Product Description	Pack Description	Qty/Case
229161	1 Chamber Cell Culture Slide, Glass	6/Tray with 2 Trays/Box	12
229162	2 Chamber Cell Culture Slide, Glass	6/Tray with 2 Trays/Box	12
229164	4 Chamber Cell Culture Slide, Glass	6/Tray with 2 Trays/Box	12
229168	8 Chamber Cell Culture Slide, Glass	6/Tray with 2 Trays/Box	12



**DOUBLE YOUR CELL GROWTH AREA WITH
EXPANDED SURFACE ROLLER BOTTLE**



- Five options for growth area from 490cm² to 4250cm² to fit all your needs
- Tissue Culture Treated Roller Bottles have uniform hydrophilic surface ideal for consistent cell attachment
- Vented or non-vented cap for open or closed systems
- Easy-to-read black printed graduations

- 1** Large knurled cap for easy grip
- 2** Ribbed surface of ESRB increases surface area and horizontal ribs bathe cells with media more evenly than bottles with vertical ribs

For part number and ordering information, see product table on next page

Roller Bottles

ROLLER BOTTLES - TISSUE CULTURE TREATED				S, R/D F, NP, USP, PS
Part No.	Size	Cap Style	Pack Description	Qty/ Case
229382	490cm ²	Non-Vented	1/Bag	24
229383	490cm ²	Vented	1/Bag	24
229384	850cm ²	Non-Vented	1/Bag	12
229385	850cm ²	Vented	1/Bag	12
NEW 229375	1700cm ²	Vented	1/Bag	12
ROLLER BOTTLES - TCT, EXPANDED SURFACE				S, R/D F, NP, USP, PS
229386	1900cm ²	Non-Vented	1/Bag	12
229387	1900cm ²	Vented	1/Bag	12
NEW 229377	4250cm ²	Vented	1/Bag	12
ROLLER BOTTLES - NON-TREATED				S, R/D F, NP, USP, PS
229582	1000mL	Non-Vented	1/Bag	24
229584	2000mL	Non-Vented	1/Bag	12
ROLLER BOTTLES - CAP ONLY				S, R/D F, NP, USP, HDPE
229391	Cap Only	Vented	1/Bag	24



Solution Bottles



- Compatible with bottle top filters or for use as solution storage containers (Bottle Top Filters sold separately, see page 63)

- 1 Solution bottle neck size is 45mm
- 2 Curved bottle design for easy handling

SOLUTION BOTTLES				S, R/D F, NP, USP, PS
Part No.	Product Description	Working volume	Pack Description	Qty/ Case
229781	150mL Solution Bottle	150mL	1/Bag	24
229782	250mL Solution Bottle	250mL	1/Bag	24
229784	500mL Solution Bottle	500mL	1/Bag	24
229785	1000mL Solution Bottle	1000mL	1/Bag	24

Wide Mouth Bottles



- Round shape and easy-pour wide mouth design
- Excellent chemical resistance and durable, rigid walls
- Ideal for specimen and chemical storage
- Liner-less leak proof screw top closure
- Bottle and cap supplied assembled
- Non-sterile; autoclavable

WIDE MOUTH BOTTLES			N, A, PP
Part No.	Product Description	Pack Description	Qty/Case
229793	30mL Wide Mouth Bottle	12/Bag	48
229794	60mL Wide Mouth Bottle	12/Bag	48
229795	125mL Wide Mouth Bottle	12/Bag	48
229796	250mL Wide Mouth Bottle	6/Bag	24
229797	500mL Wide Mouth Bottle	6/Bag	24

Beakers



BEAKERS			N, A, PP
Part No.	Product Description	Pack Description	Qty/Case
230511	30mL Graduated Beaker	100/Bag	100
230512	50mL Graduated Beaker	100/Bag	100
230513	100mL Graduated Beaker	100/Bag	100
230514	150mL Graduated Beaker	100/Bag	100
230515	250mL Graduated Beaker	50/Bag	50
230516	400mL Graduated Beaker	50/Bag	50
230517	600mL Graduated Beaker	25/Bag	25
230509	Assorted Set Graduated Beaker	10/Bag	70

- Molded pouring spouts and rolled lip for dripless work environment
- Angled walls for easier handling and sample retrieval
- Nesting design for easy stacking and storage
- Assorted Beaker Set contains 10 beakers each of 30, 50, 100, 150, 250, 400 and 600mL sizes
- Smaller case quantities are easier to store and are ideal for small scale users
- Polypropylene material for resistance to a variety of strong acids, bases and solvents

Bottle Top Filters - Polypropylene



- Fits on standard GL 45 threaded glass vacuum bottles
- Excellent chemical resistance offered with polypropylene housing as compared to polystyrene
- High temperature range of 4°C to 37°C is suitable for many applications
- Hydrophilic nylon membrane has excellent chemical compatibility with esters, bases and alcohols, and does not require pre-wetting
- Hydrophobic PTFE membrane has excellent temperature resistance and is useful for clarifying aqueous samples as well as strong acid and alkali solvent filtration
- Non-sterile

BOTTLE TOP FILTERS - POLYPROPYLENE

N, PP

Part No.	Product Description	Housing Material	Membrane Material	Membrane Diameter	Membrane Pore Size	Pack Description	Qty/Case
229725	500mL Bottle Top Filter	Polypropylene	PTFE	90mm	0.45µm	1/Bag	12
229726	1000mL Bottle Top Filter	Polypropylene	PTFE	90mm	0.45µm	1/Bag	12
229735	500mL Bottle Top Filter	Polypropylene	Nylon	90mm	0.45µm	1/Bag	12
229736	1000mL Bottle Top Filter	Polypropylene	Nylon	90mm	0.45µm	1/Bag	12
229737	500mL Bottle Top Filter	Polypropylene	Nylon	90mm	0.20µm	1/Bag	12
229738	1000mL Bottle Top Filter	Polypropylene	Nylon	90mm	0.20µm	1/Bag	12

Glass Fiber Filter Disks

- Glass Fiber Filter Disks are an ideal prefilter to prevent clogging when filtering viscous or particulate-laden solutions with CELLTREAT Scientific Products Filter Systems and Bottle Top Filters (see page 62 - 63)
- Increase filtration speed by removing larger particles prior to sterilizing filtration
- Packaged sterile, individually wrapped



GLASS FIBER FILTER DISKS

S, R/D F, NP, GLASS

Part No.	Product Description	Filter Diameter	Filter Pore Size	Pack Description	Qty/Case
230730	Glass Fiber Filter Disk, Prefilter, Binder Free	50mm	1.0µm	Individually Wrapped	50
230732	Glass Fiber Filter Disk, Prefilter, Binder Free	70mm	1.0µm	Individually Wrapped	50
230734	Glass Fiber Filter Disk, Prefilter, Binder Free	90mm	1.0µm	Individually Wrapped	50



Part No. 229707 - 500mL Filter System, 0.22µm

50mL Centrifuge Tube Filter Systems

- Eliminate a transfer step by filtering directly into a 50mL tube
- One Centrifuge Tube Stand included with each case of 50mL Centrifuge Tube Filter Systems
- Centrifuge Tube Stands are manufactured from polypropylene and are autoclavable, reusable and recyclable
- Centrifuge Tube Stand will hold one 50mL tube, three 15mL tubes and three microcentrifuge tubes (1.5mL)

Multi-purpose Centrifuge Tube Stand available for purchase separately
Part No. 229409

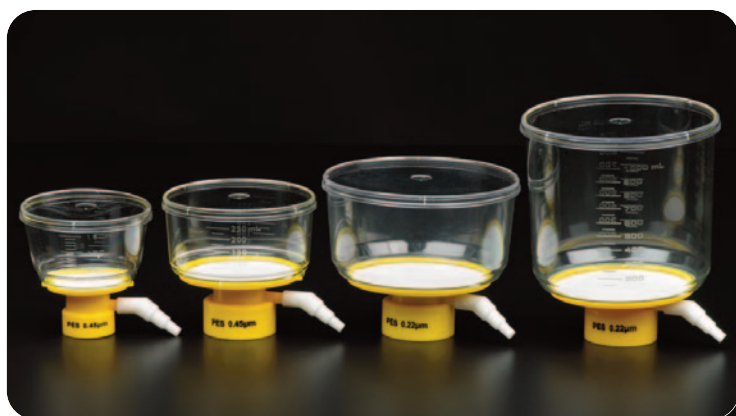
Filter Systems

- Improved filter support provides faster flow rates
 - Easy-to-read molded graduation marks on bottle top filter
 - Curved bottle design for easy handling
- 1 Larger membrane diameter for 250 & 500mL filters increases flow and reduces clogs for faster filtration
 - 90mm diameter of 500mL membrane has 44% more filtration area than standard 75mm
 - Larger area, same price
 - 2 Angled hose barb adapter fits three size hose diameters and prevents the filter from tipping
 - 3 Printed lot number and expiration date on every bottle top
 - 4 Bold easy-to-read printed membrane and pore size for easy identification



Part No. 229709
50mL Centrifuge Tube Filter System, 0.45µm

Filter Systems & Bottle Top Filters



- Polyethersulfone (PES) membrane is useful for high flow and low binding
- Nylon (PA) membrane has excellent chemical compatibility and does not require pre-wetting
- 0.22µm PES membrane is the first choice for sterile filtration of cell culture media
- 0.10µm PES membrane ideal for mycoplasma removal
- 0.45µm PES membrane ideal for solution clarification



FILTER SYSTEMS (Bottle Top Filter + Solution Bottle)

S, R/D F, NP, USP, PS

Part No.	Product Description	Membrane Material	Membrane Diameter	Membrane Pore Size	Sterile	Pack Description	Qty/ Case
229701	150mL Filter System	PES	50mm	0.45µm	Y	1/Bag	12
229702	250mL Filter System	PES	75mm	0.45µm	Y	1/Bag	12
229703	500mL Filter System	PES	90mm	0.45µm	Y	1/Bag	12
229704	1000mL Filter System	PES	90mm	0.45µm	Y	1/Bag	12
229705	150mL Filter System	PES	50mm	0.22µm	Y	1/Bag	12
229706	250mL Filter System	PES	75mm	0.22µm	Y	1/Bag	12
229707	500mL Filter System	PES	90mm	0.22µm	Y	1/Bag	12
229708	1000mL Filter System	PES	90mm	0.22µm	Y	1/Bag	12
229721	150mL Filter System	PES	50mm	0.10µm	Y	1/Bag	12
229722	250mL Filter System	PES	75mm	0.10µm	Y	1/Bag	12
229723	500mL Filter System	PES	90mm	0.10µm	Y	1/Bag	12
229724	1000mL Filter System	PES	90mm	0.10µm	Y	1/Bag	12

BOTTLE TOP FILTERS (No Solution Bottle)

S, R/D F, NP, USP, PS

229711	150mL Bottle Top	PES	50mm	0.45µm	Y	1/Bag	24
229712	250mL Bottle Top	PES	75mm	0.45µm	Y	1/Bag	24
229713	500mL Bottle Top	PES	90mm	0.45µm	Y	1/Bag	24
229714	1000mL Bottle Top	PES	90mm	0.45µm	Y	1/Bag	24
229715	150mL Bottle Top	PES	50mm	0.22µm	Y	1/Bag	24
229716	250mL Bottle Top	PES	75mm	0.22µm	Y	1/Bag	24
229717	500mL Bottle Top	PES	90mm	0.22µm	Y	1/Bag	24
229718	1000mL Bottle Top	PES	90mm	0.22µm	Y	1/Bag	24
229732	250mL Bottle Top	Nylon (PA)	75mm	0.45µm	Y	1/Bag	24
229733	500mL Bottle Top	Nylon (PA)	90mm	0.45µm	Y	1/Bag	24

CENTRIFUGE TUBE FILTER SYSTEMS (Tube Filter, Centrifuge Tube, Cap + Stand)

R/D F, NP, USP, PS

229709	50mL Centrifuge Tube Filter	PES	50mm	0.45µm	Y	1/Bag	12
229710	50mL Centrifuge Tube Filter	PES	50mm	0.22µm	Y	1/Bag	12
229409	Multi-Purpose Stand	NA	NA	NA	N	5/Bag	5

Syringe Filters

SYRINGE FILTERS							R/D F, NP, USP, PP
Part No.	Membrane Material	Membrane Pore Size	Membrane Diameter	Sterile	Packaging	Qty/Case	
229739	PES	0.10µm	30mm	Y	Individual	30	
229746	PES	0.22µm	13mm	Y	Individual	75	
229747	PES	0.22µm	30mm	Y	Individual	30	
229748	PES	0.45µm	13mm	Y	Individual	75	
229749	PES	0.45µm	30mm	Y	Individual	30	
229771	PES	0.45µm	30mm	N	Bulk	100	
229740	PVDF	0.10µm	13mm	Y	Individual	75	
229741	PVDF	0.10µm	30mm	Y	Individual	30	
229742	PVDF	0.22µm	13mm	Y	Individual	75	
229743	PVDF	0.22µm	30mm	Y	Individual	30	
229744	PVDF	0.45µm	13mm	Y	Individual	75	
229745	PVDF	0.45µm	30mm	Y	Individual	30	
229774	PVDF	0.45µm	30mm	N	Bulk	100	
229760	Nylon	0.22µm	13mm	Y	Individual	75	
229761	Nylon	0.22µm	30mm	Y	Individual	30	
229754	Nylon	0.45µm	13mm	Y	Individual	75	
229755	Nylon	0.45µm	30mm	Y	Individual	30	
229775	Nylon	0.22µm	30mm	N	Bulk	100	
229776	Nylon	0.45µm	30mm	N	Bulk	100	
229756	PTFE	0.22µm	13mm	Y	Individual	75	
229757	PTFE	0.22µm	30mm	Y	Individual	30	
229758	PTFE	0.45µm	13mm	Y	Individual	75	
229759	PTFE	0.45µm	30mm	Y	Individual	30	
229777	PTFE	0.22µm	13mm	N	Bulk	100	
229778	PTFE	0.22µm	30mm	N	Bulk	100	
229779	PTFE	0.45µm	13mm	N	Bulk	100	
229780	PTFE	0.45µm	30mm	N	Bulk	100	
229750	MCE	0.22µm	13mm	Y	Individual	75	
229751	MCE	0.22µm	30mm	Y	Individual	30	
229752	MCE	0.45µm	13mm	Y	Individual	75	
229753	MCE	0.45µm	30mm	Y	Individual	30	
229768	Glass Fiber (GF)	1.1µm	30mm	Y	Individual	30	
229762	CA	0.22µm	30mm	Y	Individual	30	
229763	CA	0.45µm	30mm	Y	Individual	30	
229764	CA	0.80µm	30mm	Y	Individual	30	
229769	CA w/ GF Prefilter	0.22µm	30mm	Y	Individual	30	
229765	SFCA	0.22µm	30mm	Y	Individual	30	
229766	SFCA	0.45µm	30mm	Y	Individual	30	

Syringe Filters



MOST POPULAR!

PES (Polyethersulfone) - Low affinity for proteins and extractables

- Faster flow rate than PVDF
- Pre-filtration and filtration of buffers and culture media
- Available in three pore sizes including 0.10µm for mycoplasma removal



PVDF (Polyvinylidene fluoride) -

Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions

- Maximizes protein recovery
- High temperature filtration



NYLON - Universal application for analytical procedures

- Chemical filtration
- Beverage filtration



PTFE (Polytetrafluorethylene) -

Hydrophobic membrane has great temperature resistance

- Degassing/clarifying aqueous samples
- Strong acid solvent filtration
- Alkali solvent filtration



MCE (Mixed Cellulose Ester) - Filtration of aqueous solutions

- Effectively binds trace proteins
- Oil particulates and bacteria filtration



GF (Glass Fiber) - Preliminary filtering step to avoid clogging

- Coarse particulate removal
- Pre-filtration



CA (Cellulose Acetate) - Low protein binding, reduced extractables and low hold-up volume

- Filtration of aqueous solutions such as buffers, media and reagents



SFCA (Surfactant Free Cellulose Acetate) -

Similar uses to CA but contains no pre-wetting agents; Lower extractables

COLOR CODED FOR EASY IDENTIFICATION!



- Individually packed, sterile, in peel-to-open paper/plastic blister packs
- Also available bulk packed, non-sterile, in PVDF, PES, PTFE and Nylon membranes

1 Color coded syringe filters are printed with membrane material and pore size opposite the luer-lock

2 Female luer-lock inlet and male luer slip outlet

3 0.22µm CA Syringe Filter with integrated GF prefilter (PN 229769) is ideal for one-step filtration of viscous solutions and particulate removal

4 Filters are molded into the polypropylene housings, providing a reliable seal without the use of adhesives

Pipet Controller - Automatic

- Lightweight (6.3oz/170g) and designed to fit comfortably in either hand
- Long-life rechargeable lithium battery provides up to 8 hours of use on a two hour charge

- 1 Adjustable dial for powered or gravimetric speed setting
- 2 Attached kickstand prevents contact with surfaces when resting the Pipet Controller
- 3 Low pressure fingertip control buttons
- 4 Easy fit adapter accepts pipet sizes from 1 to 100mL

PIPET CONTROLLER

Part No.	Product Description	Pack Description	Qty/Case
230200	Pipet Controller, 120V	Individual	1
230202	AC Adapter, Replacement, 120V	Individual	1
230204	Battery, Replacement	Individual	1
230205	Rubber Grommet, Replacement	Individual	1
230206	Filter, Replacement, 0.45µm	2/Bag	2



Pipet Controller - Manual



- Lightweight manual pipet controller does not require batteries
- Compatible with 1-100mL serological pipets
- Economical backup option for automatic pipet controller

- 1 Squeeze bulb creates pressure to draw fluid up into pipets; up to 50mL per squeeze
- 2 Ergonomic thumb lever controls speed of aspirating and dispensing
- 3 Press button blows out remaining drops in pipet

PIPET CONTROLLER

Part No.	Product Description	Pack Description	Qty/Case
230210	Pipet Controller, Manual	Individual	1
230211	Replacement Filter, 3µm	2/Bag	2

Pipet Storage Rack

- Durable ABS plastic rack can stand on flat surfaces as well as be attached to the metal sides of lab cabinets and appliances

- 1 Strong magnets are included on both sides for increased versatility
- 2 Angled shelves provide secure yet easy access to pipets
- 3 Pipet sizes, colors and types can be viewed from the side windows and front
- 4 Side bracket can hold pipet fillers, bulbs and pumps

PIPET STORAGE RACK

Part No.	Product Description	Qty/Case
230295	Pipet Storage Rack	1



Product Certification & Material Indicator Symbols

For information about product sterility, material type and other features, please consult the reference table below and product tables on each page.

Symbol	Product Certification Indicator
S	Product is Sterile
N	Product is Non-sterile
R/D F	RNase/DNase Free
NP	Non-pyrogenic: Validated to have less than 0.1 to 0.5 EU/mL*
USP	Meets USP Class VI Certification Standards
A	Autoclavable**
Symbol	Product Material Indicator
ABS	Acrylonitrile butadiene styrene
GLS	Optical grade glass
HDPE	High Density Polyethylene
PC	Polycarbonate
PETG	Polyethylene terephthalate, glycol modified
PP	Polypropylene
PS	Polystyrene
TPE	Thermoplastic elastomers

Product Certification and Material Indicator Symbols located in the black heading bar of each product table are included as a quick reference for ordering. Complete product and lot specific quality certificates are available through the CELLTREAT website - www.celltreat.com

Please refer to the chart on the right for the product specifications, primary materials and their indicator symbols.

* Limit varies by product. Please contact CELLTREAT for specific limits.

** Polypropylene Centrifuge Tubes are autoclavable. HDPE caps may be autoclaved at lower temperatures and should be inspected prior to use.

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