

Cell culture solutions from Avantor

01. IN VIVO MIMICKING: CELL CULTURE INSERTS

02. WHEN ORIGIN MATTERS: FBS FROM US & AUSTRALIA

03. ULTRA-COOL SAMPLE PROTECTION: CHEST OR UPRIGHT FREEZERS



Cell culture solutions from Avantor

WELCOME TO THE AVANTOR BRANDED RANGE OF PRODUCTS FOR CELL CULTURE

Within the variety of life science techniques cultivating cells probably has a unique position. Although a daily routine, being aware that a cell is the basic unit of life, you feel accountable almost as if your cells were your pets, don't you? No matter if you are seeding, expanding, harvesting, storing or analysing your cells, find the tools you need and rely on in this catalogue.

The cell culture plastics, filtration and liquid handling chapters will help you maintain aseptic conditions all along the workflow, including single-use assemblies and bags for biopharmaceutical production. The 'Reagents' chapter provides you with access to a reliable supply of exceptional quality sera and media components, while the 'Cryopreservation' chapter covers helpful storage solutions

for storing cells in your lab - or maybe take advantage of our biobanking services? Check the 'Analysis' chapter if you need a new microscope, and although not specific to cell culture, don't miss the 'General equipment' and 'Useful accessories' chapters – you will need some of these, for sure!

Although this catalogue covers a huge range of products, you might miss what you are looking for in this current selection. If this is the case, or if you have any question on the products and services displayed, don't hesitate to contact us for any consultancy needed.

We are proud to support you in your aim to explore new frontiers.

Your VWR Life Science Team



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CELL CULTURE FLASKS NON TREATED OR TREATED, STERILE

Cell and tissue culture flasks are perfect for cell growth.

- Available with five different growth areas
- Flask surface is flat and free from striation to maximise usable growth area
- Two different cap styles can be used in both open and closed systems
- Innovative angled neck design offers good pipette and cell scraper access
- Triangular top with wide base provides stability
- Easy stacking
- Frosted area near the neck for easy marking/writing
- Engraved graduations on multiple sides
- 100% integrity tested
- Sterilised by electron beam irradiation
- Free from DNase and RNase and non-pyrogenic

Non treated: Cell and tissue culture flasks are ideal for applications where cell attachment is not desired.

TC-Treated: For optimal cell attachment and growth.

TC-Treated, extended (*): Deeper flask for increased recommended working volume.

Increased cell attachment surface: This highly hydrophilic surface offers a significant advantage over the traditional cell culture surface. The surface treatment can improve cell spreading and attachment, and is suitable for cells that may adhere poorly due to cell phenotype, stressful culture conditions, or those which normally require additional biological coatings for attachment.

ISO 13485:2003 and ISO 9001:2008 certified.

Capacity (ml)	Surface	Growth area (cm ²)	Working volume (ml)	Closure type	Packed	Pk	Cat. No.
Flasks for suspension cells							
25	Non treated	-	20	Plug seal screw cap	10 per bag/200 per case	200	734-2783
25	Non treated	-	20	Vented cap	10 per bag/200 per case	200	734-2784
50	Non treated	-	40	Plug seal screw cap	10 per bag/200 per case	200	734-2785
50	Non treated	-	40	Vented cap	10 per bag/200 per case	200	734-2786
250	Non treated	-	175	Plug seal screw cap	5 per bag/100 per case	100	734-2787
250	Non treated	-	175	Vented cap	5 per bag/100 per case	100	734-2788
600	Non treated	-	400	Plug seal screw cap	5 per bag/40 per case	40	734-2789
600	Non treated	-	400	Vented cap	5 per bag/40 per case	40	734-2790
850	Non treated	-	800	Plug seal screw cap	3 per bag/18 per case	18	734-2791
850	Non treated	-	800	Vented cap	3 per bag/18 per case	18	734-2792
Flasks for adherent cells							
25	TC-treated	12,5	2,5 - 3,75	Plug seal screw cap	10 per bag/200 per case	200	734-2310
25	TC-treated	12,5	2,5 - 3,75	Vented cap	10 per bag/200 per case	200	734-2309
25	Increased cell attachment	12,5	2,5 - 3,75	Plug seal screw cap	10 per bag/200 per case	200	734-2804
25	Increased cell attachment	12,5	2,5 - 3,75	Vented cap	10 per bag/200 per case	200	734-2805
50	TC-treated	25,0	5 - 7,5	Plug seal screw cap	10 per bag/200 per case	200	734-2312
50	TC-treated	25,0	5 - 7,5	Vented cap	10 per bag/200 per case	200	734-2311
50	Increased cell attachment	25,0	5 - 7,5	Plug seal screw cap	10 per bag/200 per case	200	734-2806
50	Increased cell attachment	25,0	5 - 7,5	Vented cap	10 per bag/200 per case	200	734-2807
250	TC-treated	75,0	15 - 22,5	Plug seal screw cap	5 per bag/100 per case	100	734-2314
250	TC-treated	75,0	15 - 22,5	Vented cap	5 per bag/100 per case	100	734-2313
250	Increased cell attachment	75,0	15 - 22,5	Plug seal screw cap	5 per bag/100 per case	100	734-2808
250	Increased cell attachment	75,0	15 - 22,5	Vented cap	5 per bag/100 per case	100	734-2809
600	TC-treated	182,0	36,4 - 54,6	Plug seal screw cap	5 per bag/40 per case	40	734-2316
600	TC-treated	182,0	36,4 - 54,6	Vented cap	5 per bag/40 per case	40	734-2315
600	Increased cell attachment	182,0	36,4 - 54,6	Plug seal screw cap	5 per bag/40 per case	40	734-2810
600	Increased cell attachment	182,0	36,4 - 54,6	Vented cap	5 per bag/40 per case	40	734-2811
850	TC-treated	300,0	60 - 90	Plug seal screw cap	3 per bag/18 per case	18	734-2601
850	TC-treated	300,0	60 - 90	Vented cap	3 per bag/18 per case	18	734-2600
850	Increased cell attachment	300,0	60 - 90	Plug seal screw cap	3 per bag/18 per case	18	734-2812
850	Increased cell attachment	300,0	60 - 90	Vented cap	3 per bag/18 per case	18	734-2813



CELL SCRAPERS AND CELL LIFTERS

Specifically designed to make collecting of cells easier and more effective. Available with a choice of blade positions - scraper for use in flasks, or lifter for use in harvesting cells (especially stem cells) in dishes.

- Cross-ribbed handle in ABS provides greater rigidity and ensures better control while scraping cells
- Thin, flexible TPE blade prevents damage to cells
- Individually wrapped
- Sterilised by electron beam irradiation
- Free from DNase, RNase and non pyrogenic



Description	Total length (mm)	Pk	Cat. No.
Cell scraper, blade width 20 mm	250	100	734-2602
Cell lifter, blade width 20 mm	250	100	734-2603
Cell scraper, blade width 30 mm	390	100	734-2604
Cell lifter, blade width 30 mm	390	100	734-2605



CELL LIFTERS

Flat blade cell lifter for manual harvesting of cells, manufactured from high grade PE. Designed for removing cells from flasks or dishes.

- Bevelled edge blade on one end and narrow blade or J-hook on the other
- Sterilised by electron beam irradiation
- Free from DNase, RNase and non pyrogenic

Description	Total length (mm)	Pk	Cat. No.
19 mm flat blade with 9 mm J-hook end	234	100	734-2978
19 mm flat blade with 2,5 mm narrow blade end	234	100	734-2979



CELL CULTURE DISHES, 3-D SCAFFOLD

VWR® 3-D scaffold cell culture dishes, made of polystyrene (GPPS) with polystyrene polymer scaffold, are able to simulate the three-dimensional structure of cells in animals and the human body to maximum effect, providing an ideal environment for cell interaction, maximising culture area and improving yield.

- Highly consistent scaffold (mean fibre diameter of 500 and 260 µm pore spacing) with 3-D channels providing high connectivity, facilitating nutrient transmission, consistent metabolic activity, and the accuracy of culture results
- Cytokine and growth factor resistant surface assists cell secretion collection, saving time and reducing the need for additional separating steps
- Open pores with high connectivity facilitate nutrient absorption and metabolism
- Larger surface area than regular cell culture dishes for greater yields and maximum material efficiency
- Sterilised by electron beam irradiation
- Free from DNase and RNase, non pyrogenic

Applications include studies of the cell-cell interaction mechanism, cell immunotherapy, stem cell therapy, drug screening and the production of cell-based drugs.

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Ø (mm)	Growth area (cm ²)	Packed	Pk	Cat. No.
Standard dish, with 1x surface treated scaffold insert (32,0x1,6 mm)	35	43	Individually wrapped	40	734-2967
Standard dish, with 1x surface treated scaffold insert (51,0x1,6 mm)	60	109	Individually wrapped	30	734-2968
Standard dish, with 1x surface treated scaffold insert (67,5x1,6 mm)	70	191	Individually wrapped	30	734-2969



CELL CULTURE DISHES, VWR®

VWR cell and tissue culture dishes are available with a choice of surface treatments.

- Flat bottom and uniform wall thickness ensures distortion-free
- Optically clear, making them suitable for microscopy
- Dish surface is smooth and free from striation to maximise usable growth area
- Rim on the bottom side of the lid (except 35 or 150 mm dishes) mates with the dish brim for easy and secure stacking
- Sterilised by electron beam irradiation, DNase- and RNase-free and non pyrogenic

Increased cell attachment surface: This highly hydrophilic surface offers a significant advantage over the traditional cell culture surface. The surface treatment can improve cell spreading and attachment, and is suitable for cells that may adhere poorly due to cell phenotype, stressful culture conditions, or those which normally require additional biological coatings for attachment.

TC-treated: These dishes are vacuum-gas plasma-treated for consistent cell attachment and growth.

Non treated: Non treated cell and tissue culture dishes are ideal for applications where cell attachment is not desired.

Operating temperature range: -20 to +50 °C. Not autoclavable.

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Ø (mm)	Height (mm)	Growth area (cm ²)	Packed	Pk	Cat. No.
Increased cell attachment treated surface						
Cell culture dish, increased cell attachment surface	35	12,3	8,5	10/bag	240	734-2814
Cell culture dish, increased cell attachment surface, with gripping ring	60	18	21,2	10/bag	240	734-2815
Cell culture dish, increased cell attachment surface, with gripping ring	90	17	55,0	10/bag	240	734-2816
Cell culture dish, increased cell attachment surface, with gripping ring	100	22	60,8	10/bag	240	734-2817
Cell culture dish, increased cell attachment surface	150	22	143,0	5/bag	80	734-2818
TC-treated surface						
Cell culture dish, TC-treated	35	12,3	8,5	10/bag	960	734-2317
Cell culture dish, TC-treated, with gripping ring	60	18	21,2	10/bag	600	734-2318
Cell culture dish, TC-treated, with gripping ring	70	15	36,3	10/bag	600	734-2319
Cell culture dish, TC-treated, with gripping ring	90	17	55,0	10/bag	500	734-2320
Cell culture dish, TC-treated, with gripping ring	100	22	60,8	10/bag	300	734-2321
Cell culture dish, TC-treated	150	22	143,0	1/bag	120	734-2322
Non treated surface						
Cell culture dish, non treated	35	12,3	8,5	10/bag	960	734-2793
Cell culture dish, non treated, with gripping ring	60	18	21,2	10/bag	600	734-2794
Cell culture dish, non treated, with gripping ring	90	17	55,0	10/bag	500	734-2795
Cell culture dish, non treated, with gripping ring	100	22	60,8	10/bag	300	734-2796
Cell culture dish, non treated	150	22	143,0	1/bag	120	734-2797



CONFOCAL DISHES FOR MICROSCOPY

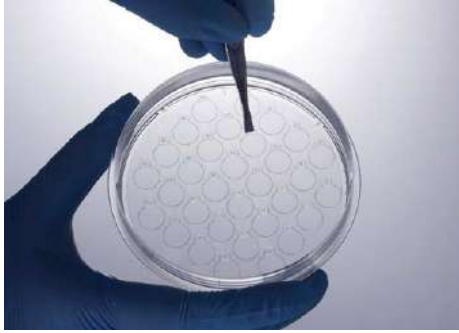
Confocal dishes are suitable for fluorescent, confocal and phase-contrast microscopy experiments. These dishes combine the convenience of standard 35 mm, PS cell culture dishes with the optical benefits of glass. Dishes are available with either Ø 15 or Ø 20 mm glass centre, with or without a tissue culture-treated surface.

- Made from homogenous borosilicate glass with low bubble and inclusion content
- Transparent, medical grade glue, achromatic
- Dish surface is smooth and free from striation to maximise usable area for growth
- Rim on upper side of the lid mates with the dish brim for easy and secure stacking
- Vented lids for effective gas exchange
- Suitable for all living cell examinations
- Sterilised by electron beam irradiation and non pyrogenic

Glass thickness: 0,16 to 0,19 mm

ISO 13485:2003 and ISO 9001:2008 certified.

Description	Pk	Cat. No.
Glass bottom dish, Ø15 mm centre, TC-treated	40	734-2903
Glass bottom dish, Ø20 mm centre, TC-treated	40	734-2904
Glass bottom dish, Ø15 mm centre, non treated	40	734-2905
Glass bottom dish, Ø20 mm centre, non treated	40	734-2906



CELL SLIDES IN CULTURE DISHES

VWR® cell slides are made from medical grade, high transparency PET, which has high strength and is unbreakable. Only the surface of the cell slide has a hydrophilic treatment so adherent cells grow easily, whilst the surrounding culture dish surface is hydrophobic, making it difficult for adherent cells to grow.

- Cell slide transparency and light transmittance are good so cells can be clearly observed under a light or fluorescence microscope
- The use of multiple cell slides in one dish makes it possible to develop multi-factor, multi-index, multi-level in vitro studies under the same condition
- Choice of Ø 8 or Ø 10 mm cell slides, with 12, 18, 32 or 45 cell slides per culture dish
- One cell culture can prepare multiple cell slides for different studies and objectives, increasing work efficiency
- Tab on the cell slide tilts at an angle, which is convenient for operators to directly clamp, and is engraved numerically, facilitating identification
- Free from DNase and RNase, non pyrogenic

The integrated cell slides are fixed in the culture dish. If further test is necessary after cell culture, the cell slides can be taken out one by one and placed in a culture plate or other container with the necessary specifications.

Supplied individually packed in 'peel to open' plastic blister packaging. Each box is matched with individually packed sterile metal tweezers. Both cell slides and tweezers are electron beam irradiated and should be used immediately after opening.

Description	Ø (mm)	Growth area (cm ²)	Packed	Pk	Cat. No.
Culture dish, 60 mm, with 18 cell slides, cell growth area 0,50 cm ² per cell slide	8	9,00	Individually wrapped	48	734-2973
Culture dish, 60 mm, with 12 cell slides, cell growth area 0,79 cm ² per cell slide	10	9,42	Individually wrapped	48	734-2974
Culture dish, 100 mm, with 45 cell slides, cell growth area 0,50 cm ² per cell slide	8	22,50	Individually wrapped	24	734-2975
Culture dish, 100 mm, with 32 cell slides, cell growth area 0,79 cm ² per cell slide	10	25,12	Individually wrapped	24	734-2976

From cell to therapy

DISCOVER
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Whether for basic research or biopharmaceutical production, we have the right solutions for your entire workflow, allowing you to focus on innovation.





MULTIWELL CELL CULTURE PLATES, VWR®

VWR multiwell cell culture plates are available with a choice of surface treatments.

- Uniform well volume ensures an equal growth surface area
- Well surface is smooth and free from striation to maximise usable growth area
- Raised rims on wells with uniform rings on the lid to reduce evaporation
- Single-position lid reduces the risk of cross-contamination and handling mistakes
- Wells are labelled with alphanumeric code for easy identification
- Suitable for use with all common instruments and automation
- Sterilised by electron beam irradiation
- Free from DNase and RNase, and non pyrogenic

Increased cell attachment surface treatment: This highly hydrophilic surface offers a significant advantage over the traditional cell culture surface. The surface treatment can improve cell spreading and attachment, and is suitable for cells that may adhere poorly due to cell phenotype, stressful culture conditions, or those which normally require additional biological coatings for attachment.

TC-treated: These plates are vacuum-gas plasma-treated for consistent cell attachment and growth.

Non treated: Non treated cell and tissue culture plates are ideal for applications where cell attachment is not desired.

Culture area = cm² per well

ISO 13485:2003, ISO 9001:2008

Individually wrapped in peel-to-open paper/plastic blister packs.

Description	Colour	Culture area (cm ²)	Recommended working volume (ml)	Sterile	Packed	Pk	Cat. No.
4-well plates, flat bottom, TC-treated	Clear	1,96	1,0	+	1/bag	100	732-2905
4-well plates, flat bottom, non treated	Clear	1,96	1,0	+	1/bag	100	732-2904
6-well plates, flat bottom, treated for increased cell attachment	Clear	9,6	1,9 – 2,9	+	1/bag	100	734-2798
6-well plates, flat bottom, TC-treated	Clear	9,6	1,9 – 2,9	+	1/bag	100	734-2323
6-well plates, flat bottom, non treated	Clear	9,6	1,9 – 2,9	+	1/bag	100	734-2777
12-well plates, flat bottom, treated for increased cell attachment	Clear	3,85	0,76 – 1,14	+	1/bag	100	734-2799
12-well plates, flat bottom, TC-treated	Clear	3,85	0,76 – 1,14	+	1/bag	100	734-2324
12-well plates, flat bottom, non treated	Clear	3,85	0,76 – 1,14	+	1/bag	100	734-2778
24-well plates, flat bottom, treated for increased cell attachment	Clear	1,93	0,38 – 0,57	+	1/bag	100	734-2800
24-well plates, flat bottom, TC-treated	Clear	1,93	0,38 – 0,57	+	1/bag	100	734-2325
24-well plates, flat bottom, non treated	Clear	1,93	0,38 – 0,57	+	1/bag	100	734-2779
48-well plates, flat bottom, treated for increased cell attachment	Clear	0,83	0,19 – 0,29	+	1/bag	100	734-2801
48-well plates, flat bottom, TC-treated	Clear	0,83	0,19 – 0,29	+	1/bag	100	734-2326
48-well plates, flat bottom, non treated	Clear	0,83	0,19 – 0,29	+	1/bag	100	734-2780
96-well plates, flat bottom, treated for increased cell attachment	Clear	0,33	0,075 – 0,20	+	1/bag	100	734-2802
96-well plates, flat bottom, TC-treated	Clear	0,33	0,075 – 0,20	+	1/bag	100	734-2327
96-well plates, flat bottom, non treated	Clear	0,33	0,075 – 0,20	+	1/bag	100	734-2781
96-well plates, round bottom, treated for increased cell attachment	Clear	0,32	0,075 – 0,20	+	1/bag	100	734-2803
96-well plates, round bottom, TC-treated	Clear	0,32	0,075 – 0,20	+	1/bag	100	734-2328
96-well plates, round bottom, non treated	Clear	0,32	0,075 – 0,20	+	1/bag	100	734-2782
384-well plates, flat bottom, TC-treated	Clear	0,1135	10 – 100 µl	+	1/bag	100	732-2907
384-well plates, flat bottom, non treated	Clear	0,1135	10 – 100 µl	+	1/bag	100	732-2906

CELL CULTURE INSERT PLATES, PC

PC, sterile, with lid. These insert plates feature a thin, semi-transparent polycarbonate membrane with pore sizes from 0,1 to 12,0 µm.

- Treated for optimal cell attachment
- Assembled with well plates
- Resistant to most fixing and staining agents
- Non pyrogenic
- Sterilised by electron beam irradiation

Temperature range: -20 to 50 °C.

ISO 9001, ISO 13485.

Packed in individual recyclable PET.

Inserts are not autoclavable.



Description	Pore size (µm)	Culture area (cm ²)	Recommended working volume (ml)	Membrane	Membrane Ø (mm)	Packed	Pk	Cat. No.
6-well insert plate	0,1	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	734-2715
6-well insert plate	0,4	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	734-2720
6-well insert plate	1,0	4,78	2,6	Translucent	24	6/plate, 4 plates/case	24	734-2716
6-well insert plate	3,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	734-2721
6-well insert plate	8,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	734-2722
6-well insert plate	12,0	4,78	2,6	Transparent	24	6/plate, 4 plates/case	24	734-2717
12-well insert plate	0,1	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	734-2726
12-well insert plate	0,4	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	734-2731
12-well insert plate	1,0	1,12	1,5	Translucent	12	12/plate, 4 plates/case	48	734-2727
12-well insert plate	3,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	734-2732
12-well insert plate	8,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	734-2733
12-well insert plate	12,0	1,12	1,5	Transparent	12	12/plate, 4 plates/case	48	734-2728
24-well insert plate	0,1	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	734-2737
24-well insert plate	0,4	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	734-2742
24-well insert plate	1,0	0,33	0,6	Translucent	6,5	12/plate, 4 plates/case	48	734-2738
24-well insert plate	3,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	734-2743
24-well insert plate	8,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	734-2744
24-well insert plate	5,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	734-2745
24-well insert plate	12,0	0,33	0,6	Transparent	6,5	12/plate, 4 plates/case	48	734-2739

CELL CULTURE INSERT PLATES, PET

Polyester, sterile, with lid. These insert plates feature a thin, microscopically-transparent polyester membrane that is tissue culture-treated for optimal cell attachment and growth.

- Provides excellent cell visibility under phase contrast microscopy
- Allows assessment of cell viability and monolayer formation
- Can be assembled with 6-, 12- and 24-well plates
- Available in five pore sizes from 0,1 to 8,0 µm
- Non pyrogenic
- Sterilised by electron beam irradiation

Temperature range: -20 to 50 °C.

ISO 9001, ISO 13485.

Packed in individual recyclable PET.

Inserts are not autoclavable.



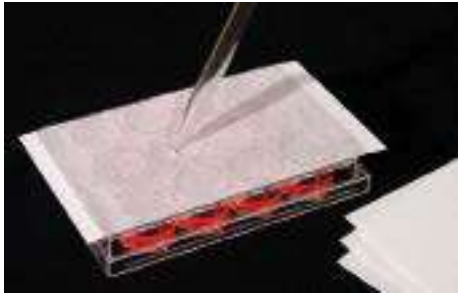
Description	Pore size (µm)	Culture area (cm ²)	Recommended working volume (ml)	Membrane	Membrane Ø (mm)	Packed	Pk	Cat. No.
6-well insert plate	0,1	4,78	2,6	Transparent	24	6/box, 24/case	24	734-2718
6-well insert plate	0,4	4,78	2,6	Translucent	24	6/box, 24/case	24	734-2723
6-well insert plate	1,0	4,78	2,6	Translucent	24	6/box, 24/case	24	734-2719
6-well insert plate	3,0	4,78	2,6	Transparent	24	6/box, 24/case	24	734-2724
6-well insert plate	8,0	4,78	2,6	Transparent	24	6/box, 24/case	24	734-2725
12-well insert plate	0,1	1,12	1,5	Transparent	12	12/box, 48/case	48	734-2729
12-well insert plate	0,4	1,12	1,5	Translucent	12	12/box, 48/case	48	734-2734
12-well insert plate	1,0	1,12	1,5	Translucent	12	12/box, 48/case	48	734-2730
12-well insert plate	3,0	1,12	1,5	Transparent	12	12/box, 48/case	48	734-2735
12-well insert plate	8,0	1,12	1,5	Transparent	12	12/box, 48/case	48	734-2736
24-well insert plate	0,1	0,33	0,6	Transparent	6,5	12/box, 48/case	48	734-2740
24-well insert plate	0,4	0,33	0,6	Translucent	6,5	12/box, 48/case	48	734-2746
24-well insert plate	1,0	0,33	0,6	Translucent	6,5	12/box, 48/case	48	734-2741
24-well insert plate	3,0	0,33	0,6	Transparent	6,5	12/box, 48/case	48	734-2747
24-well insert plate	8,0	0,33	0,6	Transparent	6,5	12/box, 48/case	48	734-2748

Solutions for nucleic acid preparation

DOWNLOAD
NOW

Featuring tools needed along the entire workflow:
Sample disruption and homogenisation, nucleic acid
isolation, photometry, centrifugation and storage.





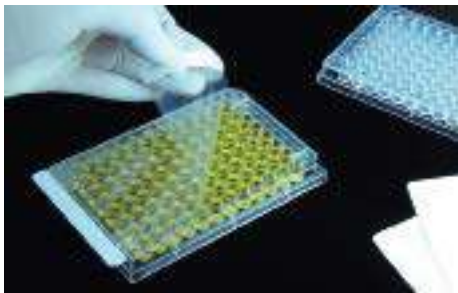
BREATHABLE RAYON FILM SEALS FOR BIOLOGICAL CULTURES

A 114 µm thick hydrophobic porous film with medical-grade adhesive for tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth. These rayon films minimise cross-contamination, spillage and evaporation. They allow uniform air and CO₂ exchange for all wells, unlike plate lids which favour exchange for wells near plate edges. Sterile product is packaged in tamper evident bags of 25.

- Non cytotoxic, highly gas permeable
- Pierceable using pipette tip for sample recovery
- Recommended for temperatures from -20 to +80 °C

Each film LxD: 142,9×82,6 mm for standard size tissue culture plates.

Description	Pk	Cat. No.
Rayon films, non sterile	100	391-1261
Rayon films, sterile	50	391-1262



POLYESTER FILMS FOR ELISA AND GENERAL INCUBATION

These 50 µm thick polyester films provide secure sealing around every well, not just a cover, thus minimising evaporation, preventing spillage and well-to-well contamination, and eliminating "edge effects" in sensitive ELISA assays. Polyester films can also be used with cell culture plates for short-term storage, incubation, and containment of biohazards.

- Functional temperature range from -40 to +120 °C
- Available sterile and non sterile
- Non pierceable

Each film LxD: 146,1×79,4 mm

Description	Pk	Cat. No.
Polyester films, non sterile	100	391-1250
Polyester films, sterile	100	391-1251



PIERCEABLE FILMS FOR ELISA AND GENERAL INCUBATION

Easily pierceable 70 µm thick PE films with acrylic adhesive allow direct sample recovery with single or multichannel pipettors and robotic probes.

- Functional temperature range from -40 °C to +90 °C

Each film LxD: 142,9×82,6 mm

Description	Pk	Cat. No.
PE films, plain, non sterile	100	391-1263
PE films, plain, sterile	50	391-1277



POLYESTER FILMS WITH COLOUR CODED MARKING AREAS

Identical to polyester films above, but including a colour dot and white writing area on each end tab for plate identification. End tabs with backing removed adhere to the ends of the plate and are perforated so they can be left in place even if the centre portion of the film is removed. Alternatively, one inscribed colour coded end tab can be removed and pasted in a laboratory notebook while the other remains on the plate.

- Choice of five colours for easy plate identification
- Applications : Short-term storage, incubation, ELISA

Description	Pk	Cat. No.
Films with purple dot, non sterile	100	391-1267
Films with orange dot, non sterile	100	391-1268
Films with red dot, non sterile	100	391-1269
Films with blue dot, non sterile	100	391-1270
Films with assorted dots, non sterile	50	391-1271

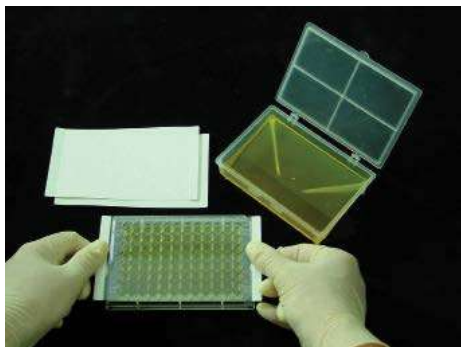
SEALING FILM FOR ELISA AND GENERAL INCUBATION, SEALPLATE®, VWR®

SealPlate® 50 µm thickness polyester sealing films minimise evaporation, prevent spillage and contamination between wells, and provide a secure seal, not just a cover. Secure sealing of all wells eliminates 'edge effects' in sensitive ELISA assays.

- Supplied non sterile
- Non-pierceable
- Suitable for ELISA, EIA, and incubation applications

SealPlate sealing films can also be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards. Each SealPlate sealing film measures 79,4x146,1 mm.

Description	Pk	Cat. No.
Polyester films, non sterile	100	391-1279



POLYESTER SEALING FILM

Polyester film, acrylic adhesive. These 50 µm thick polyester films minimise evaporation and prevent spillage and contamination between wells.

- Recommended temperature range from -40 to +120 °C
- Available sterile and non sterile
- Marginally pierceable by single channel pipette
- Applications : Short-term storage, incubation, ELISA

Each film LxD: 141,0x79,4 mm

Description	Pk	Cat. No.
Polyester sealing film	100	731-0319
Polyester sealing film, sterile	100	731-0320



SEALING FILM FOR AUTOMATION

Adhesive sealing film or foil rolls constructed on plastic cores, for use with high throughput automated microplate sealers.

- Continuous rolls - no splices
- Film or foil does not extend beyond edge of plastic core
- Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion

Sealing film for cell and tissue culture

Breathable rayon films for cell and tissue culture.

- Non cytotoxic
- Highly gas permeable
- Easily pierceable for sample recovery

Description	Pk	Cat. No.
Sealing film, rayon	1 Roll	731-0306



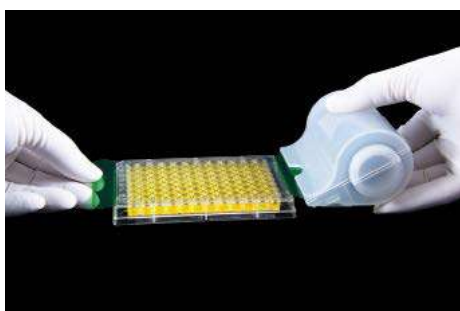
SEALING FILM FOR ELISA AND GENERAL INCUBATION

Polyester film with acrylic adhesive. These non pierceable films in sheeted-roll format are recommended for ELISA tests, general incubation and short-term storage.

- Recommended temperature range from -40 to +120 °C
- Total thickness 63 µm (film 38 µm, adhesive 25 µm)
- Prescored films separated by green colour bands for easy application
- Minimise evaporation and prevent contamination between wells
- Pre-cut films on a roll

Each roll contains sufficient film to cover 100 microplates.

Description	Pk	Cat. No.
Starter kit including dispenser and 2 film rolls	1 KIT	731-0309
Starter kit including dispenser and 2 film rolls, sterile	1 KIT	731-0310
Replacement rolls	2 Roll	731-0311
Replacement rolls, sterile	2 Roll	731-0312



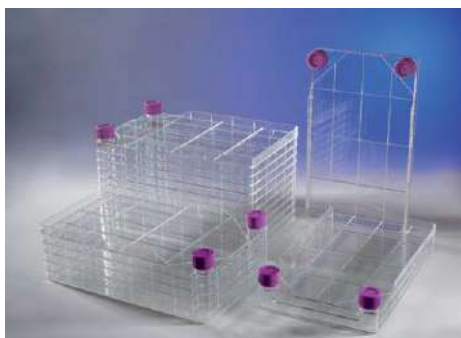
SEALING FILM FOR BIOLOGICAL CULTURES

Rayon film with medical grade adhesive. Hydrophobic, porous film in sheeted-roll format for sealing tissue culture plates, bio-blocks, and 96-well plates where gas exchange is necessary for cell or bacterial growth.

- Recommended temperature range from -20 to +80 °C
- Total thickness 140 µm
- Prescored films separated by red colour bands for easy application
- Pierceable and breathable
- Pre-cut films on a roll

Each roll contains sufficient film to cover 50 plates.

Description	Pk	Cat. No.
Starter kit including dispenser and 2 film rolls	1 KIT	731-0313
Starter kit including dispenser and 2 film rolls, sterile	1 KIT	731-0314
Replacement rolls	2 Roll	731-0315
Replacement rolls, sterile	2 Roll	731-0316



CELL CHAMBERS

VWR® cell chambers, made from medical grade, general purpose polystyrene (GPPS) and with vented cap, are ideal for large scale cell culture.

- Available in 1-, 2-, 5- and 10-tray versions for easy scale-up
- Surface treated for optimal cell attachment and growth
- Hydrophobic membrane (pore size of 0,22 µm) avoids potential contamination during gas exchange
- Does not absorb cytokines and growth factors, and cell harvesting by conventional trypsin digestion method is possible
- Sterilised by irradiation
- Free from DNase and RNase, non pyrogenic

Type	Recommended working volume (ml)	Growth area (cm ²)	Pk	Cat. No.
1 level	130 – 200	656	8	734-2980
2 levels	260 – 400	1296	6	734-2981
5 levels	650 – 1000	3216	4	734-2982
10 levels	1300 – 2000	6416	2	734-2983



Treated surface, plug seal cap

ROLLER BOTTLES

Roller bottles are optimal vessels for large scale cell growth and multiplication, and are suitable for both research and manufacturing applications, including the growth of mammalian cells for virus propagation and bioproduction.

- Caps feature large knurls for easy grip
- Two different cap styles can be used in both open and closed systems
- Every bottle features silk-printed graduations
- Non pyrogenic
- Temperature range: -20 to +50 °C
- Every case features a labelled lot number
- Sterilised by electron beam irradiation

These vessels suit automation and fit all common roller bottle instrumentation. Vessels are available with a large area surface area for cell growth of 490, 850 and 1900 cm² for adhesion cultures and 1 or 2 litre volume, for suspension cultures. The bottles are surface treated for optimal cell attachment. Bottles with smooth surface are free from striation, to maximise usable growth area; those with ribbed surface offer a larger surface area for cell growth.

ISO 9001, ISO 13485

Note: Bottles are not autoclavable

Description	Capacity (ml)	Growth area (cm ²)	Packed	Pk	Cat. No.
Treated surface, plug-seal cap	1000	490	2/bag, 40/case	40	734-2749
Treated surface, plug-seal cap	2000	850	20/bag, 20/case	20	734-2750
Treated surface, plug-seal cap	2000	850	5/bag, 40/case	40	734-2751
Treated surface, vented cap	2000	850	2/bag, 40/case	40	734-2752
Treated surface, ribbed, plug-seal cap	2000	1900	5/bag, 40/case	40	734-2753



VWR® Square/Octagonal Media Bottles,
Polycarbonate

MEDIA BOTTLES WITH CAP

PC, autoclavable, narrow mouth bottles with standard PP caps.

- Ideal for steam sterilisation
- Safe and shatterproof
- Chemically inert

VWR Collection media bottles are an ideal replacement for all borosilicate glass bottles. They are specifically designed for every laboratory application requiring terminal sterilisation (autoclaving), storage, transportation and production of laboratory biological fluids. These bottles are available in square and round shapes to accommodate various packaging needs.

The closure system is guaranteed leakproof and the sealing ring allows convenient shrink-wrapping of the caps. Each bottle is carefully produced and quality controlled for uniform wall thickness, clarity, graduation and leakproof closure.

Optional septum cap or vented cap with PTFE membrane is also available.

Description	Capacity (ml)	Thread	Pk	Cat. No.
Clear, octagonal	125	38-430	24	215-2203
Clear, octagonal	250	38-430	24	215-2204
Clear, octagonal	500	38-430	12	215-2205
Clear, octagonal	1000	38-430	12	215-2206
Clear, round	300	38-430	96	215-2924
Clear, round	500	38-430	12	215-2210
Clear, round	1000	38-430	12	215-2211

Description	Pk	Cat. No.
Accessories		
Standard cap, blue, 38 - 430	96	215-2207
Septum cap, blue, 38 - 430	96	215-2212



Individually packed square PET media bottles, sterile

BOTTLES, PET, SQUARE, WITH SCREW CAP

Square PET media bottles are designed for packaging, storing, or transporting powder and liquid samples.

- Square design allows efficient use of storage space
- PET resin is lightweight, break-resistant and transparent
- Bottles feature molded-in graduations
- EB Sterilisation Sterility Assurance Level (SAL) of 10^{-6} (ISO 11137)
- Non pyrogenic

VWR® Square PET media bottles are manufactured in a class 100 000 cleanroom environment. Manufactured under EN ISO 13485:2016.

Bottles meet the requirements of BSE/TSE, the BPA statement and heavy metals ROHS.

Bottles are available individually wrapped, or in tray packs (individually wrapped within two outer packs per case).

Capacity (ml)	Ø ext. (mm)	Height (mm)	Colour	Cap colour	Version	Pk	Cat. No.
250	59.3 ±0.8	139.5 ±1	Transparent	White	Sterile, individually packed	100	391-0626
500	77.2 ±0.8	172.4 ±1.2	Transparent	White	Sterile, individually packed	100	391-0627
1000	93 ±1.5	212.3 ±1.5	Transparent	White	Sterile, individually packed	48	391-0628
250	59.3 ±0.8	139.5 ±1	Transparent	White	Sterile, tray packed (24/tray, 2 trays/case)	48	391-0629
500	77.2 ±0.8	172.4 ±1.2	Transparent	White	Sterile, tray packed (24/tray, 2 trays/case)	48	391-0630
1000	93 ±1.5	212.3 ±1.5	Transparent	White	Sterile, tray packed (12/tray, 2 trays/case)	24	391-0631



LABORATORY BOTTLES, ROUND

Borosilicate 3.3 glass, with PP screw cap and pouring ring.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

Economical alternative for a wide range of laboratory applications. Round, with graduations, DIN GL 32 or GL 45 thread.

ISO 4796

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
50	GL 32	46	91	10	215-3261
100	GL 45	56	100	10	215-1592
250	GL 45	70	138	10	215-1593
500	GL 45	86	176	10	215-1594
1000	GL 45	101	225	10	215-1595
2000	GL 45	136	260	1	215-1596
5000	GL 45	181	330	1	215-0057
10000	GL 45	227	410	1	215-0058
20000	GL 45	288	505	1	215-0059



LABORATORY BOTTLES, ROUND, AMBER

Amber borosilicate 3.3 glass with PP screw cap and pouring ring.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of laboratory applications. Round, with graduations, DIN GL 45 thread, pouring ring and blue PP screw cap. Amber coloured to protect light-sensitive materials.

ISO 4796

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
50	GL 32	46	91	1	215-3275
100	GL 45	56	105	1	215-2325
250	GL 45	70	143	1	215-2326
500	GL 45	86	181	1	215-2327
1000	GL 45	101	230	1	215-2328
2000	GL 45	136	265	1	215-2329
5000	GL 45	181	336	1	215-2330
10000	GL 45	227	416	1	215-2337
20000	GL 45	288	512	1	215-2338

LABORATORY BOTTLES, WIDE NECK

Borosilicate 3.3 glass, clear or amber with screw cap and pouring ring.

- Very good chemical resistance, high temperature resistance
- 80 mm opening allows easy cleaning
- Minimal thermal expansion giving relatively high resistance to temperature changes

The large opening can even accommodate large volume funnels, giving easy access to scoops or spatulas. Amber to protect light-sensitive materials.



Capacity (ml)	Thread	W×D×H (mm)	Pk	Cat. No.
Clear glass				
500	GL 80	94×94×139	1	215-3743
1000	GL 80	105×105×185	1	215-3744
2000	GL 80	115×115×258	1	215-3745
5000	GL 80	160×160×357	1	215-3746
Amber glass				
500	GL 80	94×94×139	1	215-3747
1000	GL 80	105×105×185	1	215-3748
2000	GL 80	115×115×258	1	215-3749
5000	GL 80	160×160×357	1	215-3773



CARBOYS, WIDE NECK, RECTANGULAR, WITH STOPCOCK

HDPE or PP translucent, with purple screw caps.

Use for storing and dispensing solutions and media. Rectangular carboys feature a heavy-duty stainless steel handle for easy carrying and pouring. Carboys are leakproof on standard test conditions. Graduated to identify the volume dispensed. Stopcocks are tied to the handle and require hand assembly for use. No tools are necessary.

HDPE carboys

These high density polyethylene (HDPE), disposable carboys are ideal for storing and transfer of sterile fluids and pharmaceutical/biotech reagents.

Good for cold storage (down to $-80\text{ }^{\circ}\text{C}$), working temperature of -80 to $+120\text{ }^{\circ}\text{C}$

High impact strength, even at negative temperatures

Widely used for long storage due to high chemical resistance property

Widely used in food and milk industries

PP carboys

Ideal for sterile water storage, polypropylene carboys can be autoclaved before refilling to stop recurring bacterial growth.

Excellent chemical resistance

Working temperature: 0 to $+135\text{ }^{\circ}\text{C}$

Autoclavable

Note: Polypropylene carboys are autoclavable. HDPE carboys are not autoclavable. Always remove stopcock and cap from the carboy before autoclaving.

Resin meets US FDA 21 CFR, USP Class VI

Capacity (l)	Neck I-Ø (mm)	Thread (mm)	Pk	Cat. No.
HDPE				
10	85	100	1	216-1719
20	83	100	1	216-1700
PP				
10	85	100	1	216-1735
20	85	100	1	216-1732



CARBOYS, NARROW NECK, ROUND, WITH SCREW CAPS

LDPE, HDPE or PP, translucent with purple screw caps. Use for storing and dispensing solutions and media. Round carboys feature an integrated shoulder handle. Graduated to identify the volume dispensed.

LDPE carboys

Ideal for high purity applications as they have high resistance to chemicals (widely used in ophthalmic product range, like eye droppers and nasal sprays).

Ideal resin for cold storage (down to $-80\text{ }^{\circ}\text{C}$), working temperature -80 to $+80\text{ }^{\circ}\text{C}$

Resistant to physical impact (will not break even if it falls accidentally, whereas PP carboys may lead to cracking at negative temperatures)

LDPE products will bounce back to its original shape, as it is a highly flexible material

Widely used in pharma industries

HDPE carboys

High density polyethylene (HDPE), disposable carboys are ideal for storing and transfer of sterile fluids and pharmaceutical/biotech reagents.

Good for cold storage (down to $-80\text{ }^{\circ}\text{C}$), working temperature of -80 to $+120\text{ }^{\circ}\text{C}$

High impact strength even at negative temperatures

Widely used for long storage periods due to high chemical resistance

Widely used in food and milk industries

PP carboys

Ideal for sterile water storage, polypropylene (PP) carboys can be autoclaved before refilling to stop recurring bacterial growth.

Excellent chemical resistance

Working temperature: 0 to $+135\text{ }^{\circ}\text{C}$

Autoclavable

Note: Polypropylene carboys are autoclavable. LDPE and HDPE carboys are not autoclavable. Always remove cap from carboy before autoclaving.

Resin meets US FDA 21 CFR, U SP Class VI.

Capacity (l)	Type	Neck I-Ø (mm)	Thread (mm)	Pk	Cat. No.
LDPE carboys					
10	Non sterile	65	83	1	216-1704
15	Non sterile	65	83	1	216-1918
20	Non sterile	65	83	1	216-1706
25	Non sterile	65	83	1	216-1908
50	Non sterile	65	83	1	216-1738
HDPE carboys					
10	Non sterile	65	83	1	216-1736
20	Non sterile	65	83	1	216-1737
20	Sterile	65	83	1	216-1729
PP carboys					
10	Non sterile	65	83	1	216-1703
20	Non sterile	65	83	1	216-1701
50	Non sterile	65	83	1	216-1702



Round carboy with spigot group

CARBOYS, NARROW NECK, ROUND, WITH STOPCOCK AND SCREW CAP

LDPE/HDPE or PP, translucent with purple screw caps. Use for storing and dispensing solutions and media. Round carboys feature an integrated shoulder handle. Graduated to identify the volume dispensed.

LDPE carboys

Ideal for high purity applications as they have high resistance to chemicals (e.g. widely used in ophthalmic product range, like eye droppers and nasal sprays)

Ideal resin for cold storage (down to -80 °C), working temperature -80 to +80 °C

Resistant to physical impact (will not break even if it falls down accidentally, whereas PP carboys may lead to cracking at negative temperatures)

LDPE products will bounce back to their original form as LDPE is a highly flexible material

Widely used in pharma industries

HDPE carboys

High-density polyethylene (HDPE), disposable carboys are ideal for storing and transfer of sterile fluids and pharmaceutical/biotech reagents.

Good for cold storage (down to -80 °C), working temperature -80 to +120 °C

High impact strength, even at negative temperatures

Widely used for long storage due to high chemical resistance

Widely used in food and milk industries

PP carboys

Ideal for sterile water storage, polypropylene (PP) carboys can be autoclaved before refilling to stop recurring bacterial growth.

Excellent chemical resistance

Working temperature: 0 to +135 °C

Autoclavable

Note: Polypropylene carboys are autoclavable. LDPE carboys are not autoclavable. Always remove the stopcock and cap from the carboy before autoclaving.

Resin meets US FDA 21 CFR, U SP Class VI.

Capacity (l)	Thread (mm)	Pk	Cat. No.
LDPE carboys			
10	83	1	216-1731
20	83	1	216-1717
25	83	1	216-1899
50	83	1	216-1734
HDPE carboys			
25	83	1	216-1928
PP carboys			
10	83	1	216-1710
20	83	1	216-1705
50	83	1	216-1718



CARBOYS, NARROW NECK, HEAVY-DUTY, ROUND, WITH SCREW CAP

PP, translucent, with purple screw cap.

- Excellent chemical resistance
- Suitable for use from 0 to +135 °C
- Graduated to identify the volume dispensed
- Carboys feature an integrated shoulder handle

Use for storing and dispensing solutions and media. Ideal for sterile water storage, polypropylene carboys can be autoclaved before refilling to stop recurring bacterial growth.

Note: Always remove the cap from the carboy before autoclaving.

Resin meets US FDA 21 CFR, USP Class VI.

Capacity (l)	Neck I-Ø (mm)	Thread (mm)	Pk	Cat. No.
10	65	83	1	216-1709
20	65	83	1	216-1707



CARBOYS, WIDE NECK, ROUND, WITH SCREW CAPS

LDPE or PP, translucent with purple screw caps.

Use for storing and dispensing solutions and media. Round carboys feature an integrated shoulder handle. Graduated to identify the volume dispensed.

LDPE carboys

Ideal for high purity applications as they have high resistance to chemicals (widely used in ophthalmic products like eye droppers and nasal sprays).

Preferred resin for cold storage (down to -80 °C), working temperature -80 to +80 °C

Resistant to physical impacts (will not break even if it falls down accidentally, whereas PP carboys may lead to cracking at negative temperatures)

LDPE product, will bounce back to their original shape as highly flexible material

Widely used in pharma industries

PP carboys

For sterile water storage, polypropylene (PP) carboys can be autoclaved before refilling to stop recurring bacterial growth.

Excellent chemical resistance

Working temperature 0 to +135 °C

Autoclavable

Resin meets US FDA 21 CFR, U SP Class VI

Polypropylene carboys are autoclavable. LDPE carboys are not autoclavable. Always remove the spigot and cap from the carboy before autoclaving.

Capacity (l)	Neck I-Ø (mm)	Thread (mm)	Pk	Cat. No.
LDPE carboys				
10	85	100	1	216-1708
15	85	100	1	216-1919
PP carboys				
10	83	100	1	216-1730
20	83	100	1	216-1733



STOPCOCK FOR VWR® COLLECTION CARBOYS

PP, white/purple

Pack consists of stopcock, adapter for tube connection and stopper for long storage. Stopcock is designed to be tightly assembled by hand and, therefore, does not require any tools for assembly. Autoclavable.

Resin meets US FDA 21 CFR, USP Class VI

Description	Pk	Cat. No.
Stopcock, with adapter for tubing connection and stopper for long storage for VWR Collection carboys	1	216-1745

SPARE CAPS FOR VWR® CARBOYS

Spare caps are designed for use with either narrow mouth or wide mouth VWR® carboys

Autoclavable.

Description	Cap size (mm)	Colour	Pk	Cat. No.
Cap for narrow mouth VWR® carboys	83	Purple	1	216-1840
Cap for wide mouth VWR® carboys	100	Purple	1	216-1841



Sanitary neck carboy 20 l

CARBOYS, ROUND, SANITARY NECK, PP

Ideal for bioprocessing applications. Features a sanitary flange (76 mm) that accepts standard TC fittings.

- Convenient shoulder handles
- Very good chemical resistance
- Autoclavable

Resin meets US FDA 21 CFR, USP Class VI.

Capacity (l)	Neck-Ø (mm)	Pk	Cat. No.
20	76	1	216-1897

FILLING AND VENTING CAP FOR VWR® CARBOYS

The filling and venting cap for VWR® carboys is an autoclavable closure designed for the aseptic transfer of media, biological reagents, pure water and chemicals

Each cap is equipped with integrated 6,35 mm ports.

Description	Pk	Cat. No.
Filling/venting 3-port cap for VWR® carboys	1	216-1842



Rectangular carboy group

CARBOYS, WIDE NECK, RECTANGULAR

These carboys are useful for storing and dispensing solutions and media.

- High chemical resistance
- Ideal for sterile water storage
- Graduated to identify the volume dispensed

PP carboys can be autoclaved before refilling to stop recurring bacterial growth. HDPE carboys are for use from -100 to +100 °C.

Note: Always remove the cap from the carboy before autoclaving.

Resin meets US FDA 21 CFR, USP Class VI.

Capacity (l)	Neck-Ø (mm)	Pk	Cat. No.
HDPE carboys			
20	100	1	216-1927
PP carboys			
10	100	1	216-1898
20	100	1	216-1907



Reinforced silicone hose

SINGLE-USE HIGH PRESSURE TRANSFER HOSE WITH STERILENZ™ CONNECTIONS, AVANTOR

Avantor's high-pressure single-use transfer hose with Avantor SterilEnz™ connections maintain the durability of high-pressure hose products while providing the benefits and flexibility of single-use assemblies.

- Suitable for elevated temperatures and pressures up to 150 psi
- 25,4 mm inner diameter for high flow rate applications
- Gamma-irradiated with SAL 10⁻⁶
- Offered at 1,524 and 3,048 m lengths
- Gasket affixed to TC face even when disconnected to prevent misalignment

Designed for applications where pressures would exceed normal biopharmaceutical processes. Suitable for elevated temperatures and pressures up to 150 PSI.

Avantor single-use transfer hose with SterilEnz™ connections are pre-sterilized and gamma irradiated with SAL 10⁻⁶, then packaged in a double polybag as an added convenience for customers when working with the product. The inner diameter supports high-flow rates, while the different lengths meet the requirements for many bioprocessing applications, with custom lengths available upon request.

USP Class VI, ACDF, Sterile, Pressure rating up to 150 psi.

Ø int. (mm)	Length (m)	Description	Pk	Cat. No.
25,4	1,524	Reinforced silicone hose	1	734-3323
25,4	3,048	Reinforced silicone hose	1	734-3324

AVANTOR SINGLE-USE BIOPROCESSING BAGS

Avantor single-use bioprocessing bags are designed to transfer and store your products throughout the drug-manufacturing process. Made from proprietary FlexFilm™ material – a thick, co-extruded film featuring polyethylene inner and outer layers that provide extra resistance to a wide range of chemicals – Avantor single-use bags are provided in a range of standard sizes to meet the needs of many bioprocessing applications.

- Bag film made from proprietary ULDPE with high clarity and flexibility
- Standard 2D bag assemblies provided at volumes ranging from 50 ml to 50 L
- Standard 3D bag chambers of 100 L, 200 L, and 500 L for faster custom assembly deliveries
- Custom 3D bag chamber volumes up to 3000 L for large volume processes
- Bag assemblies provided irradiated with SAL 10⁻⁶ and USP Class VI certification

Avantor's standard 2D bag assemblies are available with C-Flex tubing with plugged ends for welding and silicone tubing with either luer or MPC connectors for easy operator connections. The custom bag assemblies, both 2D and 3D, allow for user-specified tubing materials and connection types including a range of sterile connectors from all major manufacturers.

The 2D bag assemblies are designed for hanging which allows ease of use and complete fluid recovery. The standard 3D bag chambers available at 100 L, 200 L, and 500 L are top-ported for easy use in a variety of totes and container configurations.

P1 and P2 are supplied with clamps.

Description	Capacity	Pk	Cat. No.
Pillow bag, 2 ports welding	50	25	734-3315
Pillow bag, 2 ports Luer	50	25	734-3316
Pillow bag, 2 ports MPC	50	25	734-3317
Pillow bag, 2 ports welding	500	20	734-3318
Pillow bag, 2 ports Luer	500	20	734-3319
Pillow bag, 2 ports MPC	500	20	734-3320
Pillow bag, 2 ports welding	1 L	15	734-3304
Pillow bag, 2 ports Luer	1 L	15	734-3305
Pillow bag, 2 ports MPC	1 L	15	734-3306
Pillow bag, 3 ports welding	5 L	12	734-3311
Pillow bag, 3 ports MPC	5 L	12	734-3312
Pillow bag, 3 ports welding	10 L	10	734-3307
Pillow bag, 3 ports MPC	10 L	10	734-3308
Pillow bag, 2 ports welding	20 L	6	734-3309
Pillow bag, 3 ports MPC	20 L	6	734-3310
Pillow bag, 2 ports welding	50 L	4	734-3313
Pillow bag, 3 ports MPC	50 L	4	734-3314



Pre-sterilised Single Use Sample Tube

AVANTOR OMNITOP SAMPLE TUBES® ASSEMBLIES, PRE-STERILISED, SINGLE-USE

OmniTop Sample Tubes® are a convenient device that can be used to obtain fluid samples. Each OmniTop tube comes with a pre-attached 0,2 µm vent filter and 18» of tubing (C-Flex®, TYGON®, silicone or PharMed®).

- Customisable cap system
- Unique cap design allows for complete customisation
- Ability to use different ID and OD tubing diameters
- Wide selection of tubing materials
- Easily configured with virtually any type of tubing
- Single-use
- Cost effective
- Reduced assembly and installation time
- Eliminate cleaning validation
- Flexible manufacturing
- Design permits quick delivery on small lots
- Closure system can be used with various glass bottles
- Available individually packaged or configured in manifold

These tubes are available with or without internal dip-tubes to facilitate removal of the fluid inside.

OmniTop Sample Tubes® can be aseptically connected to your bioreactor or other device using standard tubing welders, such as the Terumo SCD-IIB. Sample Tubes can also be aseptically sealed and removed (wet or dry) using tubing sealers such as the Genesis SE340 or handheld battery powered version SE640.

Use OmniTop for the transfer of biopharmaceutical products and reagents in a closed system, gas exchange transfer, sampling of biopharmaceutical products and reagents in a closed system, storage of biopharmaceutical products and reagents. For use with bench top, pilot plant, and production bioreactors. Also for use with sterile connecting devices and thermal or RF tubing sealers.

OmniTop Sample Tubes® are available in a wide variety of standard configurations or they can be customised to suit your specific applications.

Capacity (ml)	Description	Material	Pk	Cat. No.
OmniTop 15 mL sample tubes				
15	OmniTop assembly, C-Flex®, Gamma	PP	10	734-2985
15	OmniTop assembly, C-Flex®, silicone dip tube, Gamma	PP	10	734-2986
15	OmniTop Assembly, C-Flex®, Seal and Trim, Gamma	PP	10	734-2987
15	OmniTop Assembly, C-Flex®, Silicone Dip Tube, Seal and Trim, Gamma	PP	10	734-2988
15	OmniTop assembly, C-Flex®, Gamma	Polystyrene	10	734-2989
15	OmniTop assembly, C-Flex®, seal and trim, Gamma	Polystyrene	10	734-2991
15 ml	OmniTop assembly, C-Flex®, silicone dip tube, seal and trim, Gamma	Polystyrene	10	734-2992
OmniTop 50 mL sample tubes				
50	OmniTop assembly, C-Flex®, Gamma	PP	10	734-2993
50	OmniTop assembly, C-Flex®, seal and trim, Gamma	PP	10	734-2994
50	OmniTop assembly, C-Flex®, silicone dip tube, Gamma	PP	10	734-2995
50	OmniTop assembly, C-Flex®, silicone dip tube, seal and trim, Gamma	PP	10	734-3212



BOTTLE ASSEMBLIES, PETG, STERILE, SINGLE-USE

Sterile PETG containers, with weldable tubings, provide the maximum amount of flexibility and reliability. These vessels are assembled in an ISO Class 7 cleanroom and are manufactured from USP Class VI materials. They come in a comprehensive size selection with tubing that is completely weldable/sealable.

- Sterile bottles come individually bagged and process ready
- Multiple bottle sizes allow for process-specific flexibility
- When used with sterile VWR® tube sets, custom possibilities are endless
- Gamma irradiated to Sterility Assurance Level (SAL) 10⁻⁶

Assemblies have been designed with a broad spectrum of applications in mind, including life sciences and general lab use, environmental assays, also production and cleanroom applications. All product contact materials are animal-free or processed in accordance to EMEA/410/01. The assemblies are able to withstand temperatures from -20 to +65 °C without losing integrity. All assemblies are individually double-bagged with product label located on the inner bag. Gamma irradiated to Sterility Assurance Level (SAL) 10⁻⁶.

Capacity (ml)	Cap size	Tubing connection	Tubing length	Tubing material	Tubing size	Pk	Cat. No.
125	38-430	Port 1: PP Tube Plug Port 2: 25 mm Hydrophobic PE Vent Filter	Port 1: 24" Port 2: 3"	C-Flex	Port 1: 1/8" x 1/4" Port 2: 1/8" x 1/4"	6	c
250	38-430	Port 1: PP Tube Plug Port 2: 25 mm Hydrophobic PE Vent Filter	Port 1: 24" Port 2: 3"	C-Flex	Port 1: 1/8" x 1/4" Port 2: 1/8" x 1/4"	6	734-2845
500	38-430	Port 1: PP Tube Plug Port 2: 25 mm Hydrophobic PE Vent Filter	Port 1: 24" Port 2: 3"	C-Flex	Port 1: 1/8" x 1/4" Port 2: 1/8" x 1/4"	6	734-2846
1000	38-430	Port 1: PP Tube Plug Port 2: 25 mm Hydrophobic PE Vent Filter	Port 1: 24" Port 2: 3"	C-Flex	Port 1: 1/8" x 1/4" Port 2: 1/8" x 1/4"	3	734-2850
2000	53B	Port 1: PP Tube Plug Port 2: 50 mm PTFE Vent Filter	Port 1: 24" Port 2: 3"	C-Flex	Port 1: 1/8" x 1/4" Port 2: 1/4" x 3/8"	2	734-2894
2000	53B	Port 1: PP Tube Plug Port 2: 50 mm PTFE Vent Filter Port 3: PP Tube Plug	Port 1: 12" Port 2: 3" Port 3: 12"	C-Flex	Port 1: 3/8" x 1/2" Port 2: 1/4" x 3/8" Port 3: 3/8" x 1/2"	2	734-2851



Seradigm ultimate grade fetal bovine serum (FBS)

AVANTOR FOETAL BOVINE SERUM (FBS), US ORIGIN

Ultimate grade FBS offers the ultimate in product quality and viral safety, undergoing additional BVD virus testing using qPCR technology. Premium grade FBS is widely used by cell culturists requiring high quality, high performance FBS for a wide variety of applications.

- 100% US origin
- Triple 0,1 µm sterile filtration
- Preservation of native, growth-promoting factors and minimisation of growth-inhibiting factors
- Independently tested by third party laboratories
- Fully traceable

Ultimate grade FBS (endotoxin ≤10 EU/ml; haemoglobin ≤25 mg/dl) offers the ultimate in product quality and viral safety, undergoing additional BVD virus testing using qPCR technology. Proprietary collection and production techniques provide additional features that elevate product quality, enhance traceability and improve regulatory compliance. This product is used by cell culturists who work with primary cell lines, in production environments and applications where regulatory or traceability concerns are paramount.

Premium grade FBS (endotoxin ≤20 EU/ml; haemoglobin ≤25 mg/dl) offers quality features, such as complete testing by independent third party laboratories and raw material traceability that elevates it above comparable products. This product is used by cell culturists who require a high quality, high performance product for a wide variety of applications.

International Serum Industry Association (ISIA) certified supply chain for traceability.

Endotoxin	≤10 EU/ml	≤20 EU/ml
Haemoglobin	≤25 mg/dl	

Description	Pk	Cat. No.
Ultimate grade		
FBS, Ultimate grade, US origin	50 ml	89510-198
FBS, Ultimate grade, US origin	500 ml	97068-101
FBS, Ultimate grade, heat inactivated, US origin	50 ml	89510-200
FBS, Ultimate grade, heat inactivated, US origin	500 ml	97068-107
FBS, Ultimate grade, gamma irradiated, US origin	500 ml	97068-102
FBS, Ultimate grade, gamma irradiated and heat inactivated, US origin	500 ml	97068-104
Premium grade		
FBS, Premium grade, US origin	50 ml	89510-194
FBS, Premium grade, US origin	500 ml	97068-085
FBS, Premium grade, heat inactivated, US origin	50 ml	89510-196
FBS, Premium grade, heat inactivated, US origin	500 ml	97068-091
FBS, Premium grade, gamma irradiated, US origin	500 ml	97068-086
FBS, Premium grade, gamma irradiated, heat inactivated, US origin	500 ml	97068-088



Seradigm ultra low IgG fetal bovine serum (FBS)

AVANTOR FOETAL BOVINE SERUM (FBS), ULTRA-LOW IGG, US ORIGIN

Ultra-low IgG foetal bovine serum (FBS) is purified of immunoglobulin (IgG) using a chromatographic process that delivers significantly reduced levels of IgG ($\leq 5 \mu\text{g/ml}$).

- 100% US origin
- Triple 0,1 μm sterile filtration
- Preservation of native, growth-promoting factors and minimisation of growth-inhibiting factors
- Independently tested by third party laboratories
- Fully traceable

Ultra-low IgG FBS is ideal for cell culture and protein purification applications where naturally occurring levels of IgG are too high.

International Serum Industry Association (ISIA) certified supply chain for traceability.

Endotoxin	$\leq 20 \text{ EU/ml}$
Haemoglobin	$\leq 25 \text{ mg/dl}$

Description	Serum format	Sterility	Pk	Cat. No.
Ultra-low IgG foetal bovine serum (FBS)	Frozen	Sterile filtered	50 ml	10018-828
Ultra-low IgG foetal bovine serum (FBS)	Frozen	Sterile filtered	500 ml	10018-826
Ultra-low IgG foetal bovine serum (FBS), heat inactivated	Frozen	Sterile filtered	50 ml	10018-832
Ultra-low IgG foetal bovine serum (FBS), heat inactivated	Frozen	Sterile filtered	500 ml	10018-830
Ultra-low IgG foetal bovine serum (FBS), gamma irradiated	Frozen	Sterile filtered	500 ml	10836-696
Ultra-low IgG foetal bovine serum (FBS), gamma irradiated and heat inactivated	Frozen	Sterile filtered	500 ml	10836-698



Australia origin fetal bovine serum (FBS), 500 ml

AUSTRALIAN ORIGIN FETAL BOVINE SERUM (FBS), AVANTOR®

Australian Origin FBS is widely considered the gold standard for safety and regulatory compliance by cell culturists around the world. Avantor Seradigm Australian Origin FBS combines outstanding performance and quality with ease of regulatory access globally, suitable for a wide variety of applications.

- 100% Australian origin
- Australian disease free status
- Preservation of native, growth-promoting factors
- Single use sterile filtration technology
- Proven performance and consistency

Avantor Seradigm is a fully-integrated supplier of animal sera that provides the cell culture community with access to the most reliable supply of high performance, exceptional quality Fetal Bovine Serum (FBS) and cost-effective FBS alternatives.

The approach to sourcing and manufacturing, and the proprietary collection and production techniques provide additional features that elevate product quality, enhance traceability and improve regulatory compliance.

Endotoxin	$\leq 10 \text{ EU/ml}$
Haemoglobin	$\leq 25 \text{ mg/dl}$
Origin	Australia
Storage temperature	Frozen

Description	Pk	Cat. No.
Australia Origin fetal bovine serum (FBS)	50 ml	76294-120
Australia Origin fetal bovine serum (FBS), gamma irradiated	500 ml	76294-122
Australia Origin fetal bovine serum (FBS), gamma irradiated, heat inactivated	500 ml	76294-124
Australia Origin fetal bovine serum (FBS), heat inactivated	50 ml	76294-178
Australia Origin fetal bovine serum (FBS)	500 ml	76294-180
Australia Origin fetal bovine serum (FBS), heat inactivated	500 ml	76294-182



Seradigm FB essence

AVANTOR FB ESSENCE, US ORIGIN

FB Essence is a US origin foetal bovine serum (FBS) alternative that can be used in place of FBS in many cell culture applications. It contains foetal bovine serum, bovine calf serum and equine serum, plus a proprietary blend of supplements including vitamins, minerals and various growth factors.

- 100% US origin
- Cost effective alternative to FBS
- Effective across a broad range of cell types

Endotoxin	≤20 EU/ml
Haemoglobin	≤25 mg/dl

Description	Serum format	Sterility	Pk	Cat. No.
FB Essence	Frozen	Sterile filtered	50 ml	10805-184
FB Essence	Frozen	Sterile filtered	500 ml	10803-034
FB Essence, gamma irradiated	Frozen	Sterile filtered	500 ml	10805-180
FB Essence, heat inactivated	Frozen	Sterile filtered	50 ml	10799-384
FB Essence, heat inactivated	Frozen	Sterile filtered	500 ml	10799-390
FB Essence, gamma irradiated, heat inactivated	Frozen	Sterile filtered	500 ml	10805-182



Seradigm iron supplemented bovine calf serum (BCS)

AVANTOR BOVINE CALF SERUM (BCS), IRON-SUPPLEMENTED, US ORIGIN

Iron-supplemented bovine calf serum, sourced from US origin animals aged up to six months, and raised on a diet consisting mainly of formula.

- 100% US origin
- Cost effective alternative to FBS
- Similar performance to FBS in many established cell lines

These source animals have naturally high levels of transferrin. When the serum is supplemented with iron, the iron binds to the unbound transferrin, resulting in a product with three to four times the amount of available iron compared to FBS or equine serum. This product is an excellent, cost effective alternative to FBS and often performs as well as FBS in many established cell lines. In some applications, it even outperforms FBS and equine serum.

International Serum Industry Association (ISIA) certified supply chain for traceability.

Endotoxin	≤20 EU/ml
Haemoglobin	≤30 mg/dl
Origin	United States

Description	Serum format	Pk	Cat. No.
Iron-supplemented bovine calf serum (BCS)	Frozen	50 ml	10158-360
Iron-supplemented bovine calf serum (BCS)	Frozen	500 ml	10158-358
Iron-supplemented bovine calf serum (BCS)	Frozen	1 L	10153-134
Iron-supplemented bovine calf serum (BCS), gamma irradiated	Frozen	1 L	10153-136

IPTG (ISOPROPYL-β-D-THIOGALACTOPYRANOSIDE) ≥98% (BY HPLC ON DRIED BASIS), BIOTECH REAGENT, J.T. BAKER®

Reduce risk in your bioprocessing applications with Avantor J.T.Baker brand cGMP manufactured IPTG.

- cGMP manufactured under ICHQ7
- High-purity (>98% by HPLC)
- Low microbial, trace metals and endotoxin content
- Consistent lot-to-lot protein induction performance
- TSE/BSE-free
- 1,4-Dioxane-free

Packaged in moisture permeation resistant controlled packaging.

Description	Pack type	Pk	Cat. No.
IPTG (isopropyl-β-D-thiogalactopyranoside) ≥98% (by HPLC on dried basis), Biotech Reagent, J.T. Baker®	Wide mouth polyethylene bottle	10 g	V264-01
IPTG (isopropyl-β-D-thiogalactopyranoside) ≥98% (by HPLC on dried basis), Biotech Reagent, J.T. Baker®	Wide mouth polyethylene bottle	100 g	V264-02
IPTG (isopropyl-β-D-thiogalactopyranoside) ≥98% (by HPLC on dried basis), Biotech Reagent, J.T. Baker®	Polyethylene pail, screw top	1 kg	V264-05

CITRIC ACID MONOHYDRATE 99.5-100.5% (BY ANHYDROUS BASIS), GRANULAR USP, MULTI-COMPENDIAL, J.T. BAKER®

Must be subjected to further processing during the preparation of injectable dosage forms.

Description	Pack type	Pk	Cat. No.
Citric acid monohydrate 99.5-100.5% (by anhydrous basis), granular USP, Multi-compendial, J.T. Baker®	Glass bottle for solids	2,5 kg	0115-05

HEPES (2-[4-(2-HYDROXYETHYL)-1-PIPERAZINYL] ETHANESULPHONIC ACID) FREE ACID ≥99%, HIGH PURITY

HEPES is a general purpose buffer available for biological research.

Has been used to advantage in tissue culture, oxidative phosphorylation, protein synthesis with cell-free bacterial systems, photophosphorylation and CO₂ fixation. Suitable buffer for TEM studies (Transmission Electron Microscopy) as it does not affect metal substrates. Recommended buffer for glutamate binding assays, preventing binding to non receptor materials.

Description	Pack type	Pk	Cat. No.
HEPES (2-[4-(2-hydroxyethyl)-1-piperaziny]) ethanesulphonic acid) free acid ≥99%, high purity	HDPE Bottle	50 g	0511-50G
HEPES (2-[4-(2-hydroxyethyl)-1-piperaziny]) ethanesulphonic acid) free acid ≥99%, high purity	HDPE Bottle	250 g	0511-250G
HEPES (2-[4-(2-hydroxyethyl)-1-piperaziny]) ethanesulphonic acid) free acid ≥99%, high purity	HDPE Bottle	1 kg	0511-1KG

Γ-(N-MORPHOLINO)PROPANESULPHONIC ACID (MOPS) ≥99%, ULTRAPURE

MOPS is a zwitterionic buffer used as a running buffer for denaturing agarose gel electrophoresis of RNA.

Description	Pack type	Pk	Cat. No.
γ-(N-Morpholino)propanesulphonic acid (MOPS) ≥99%, ultrapure	Glass bottle	100 g	0670-100G
γ-(N-Morpholino)propanesulphonic acid (MOPS) ≥99%, ultrapure	Glass bottle	250 g	0670-250G
γ-(N-Morpholino)propanesulphonic acid (MOPS) ≥99%, ultrapure	Glass bottle	500 g	0670-500G

DIPOTASSIUM HYDROGEN PHOSPHATE 98.0-100.5% (DRIED BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

– GMP manufactured product

Description	Pack type	Pk Info	Pk	Cat. No.
Dipotassium hydrogen phosphate 98.0-100.5% (dried basis) USP, Multi-compendial, J.T. Baker®	White poly bottle with blue tamper-evident cap	500 g	500 g	3250-01

Solutions for nucleic acid preparation

DOWNLOAD NOW

Featuring tools needed along the entire workflow: Sample disruption and homogenisation, nucleic acid isolation, photometry, centrifugation and storage.



POTASSIUM DIHYDROGEN PHOSPHATE 98.0-100.5% (DRIED BASIS), CRYSTALS NF, MULTI-COMPENDIAL, J.T. BAKER®

Maximise the stability of your pharmaceutical formulations and get predictable pH control with reliable, proven buffering agents from Avantor™ Performance Materials.

- GMP manufactured product

No Class 1, 2, 3 or other solvents are used or produced in the manufacturing or purification of the product.

Meets NF requirements and EP and BP chemical specifications.

Description	Pack type	Pk	Cat. No.
Potassium dihydrogen phosphate 98.0-100.5% (dried basis), crystals NF, Multi-compendial, J.T. Baker®	Wide mouth amber glass bottle, blue tamper-evident cap, bulk	500 g	3248-01

POTASSIUM IODIDE 99.0-101.5%, GENAR® USP, MACRON FINE CHEMICALS™

Description	Pk	Cat. No.
Potassium iodide 99.0-101.5%, GenAR® USP, Macron Fine Chemicals™	500 g	1115-04

PYRIDOXINE HYDROCHLORIDE USP, FCC, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
Pyridoxine hydrochloride USP, FCC, J.T. Baker®	Glass bottle for solids	5 g	3343-01

SODIUM CARBONATE, ANHYDROUS 99.5-100.5% (BY ANHYDROUS BASIS), GRANULAR NF, FCC, J.T. BAKER®

pH adjusters are used to adjust the pH of formulations.

- Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
Sodium carbonate, anhydrous 99.5-100.5% (by anhydrous basis), granular NF, FCC, J.T. Baker®	Bottle, WMA glass, blk tamper evident cap	500 g	3605-01

SODIUM CHLORIDE 99.0-100.5% (DRIED BASIS), GRANULAR USP, MULTI-COMPENDIAL, J.T. BAKER®

- Management of Change (MOC) category = R

Description	Pack type	Pk	Cat. No.
Sodium chloride 99.0-100.5% (dried basis), granular USP, Multi-compendial, J.T. Baker®	Bottle, wide mouth amber glass, black tamper evident cap	500 g	3627-01

SODIUM CHLORIDE 99.0-100.5% (DRY BASIS), GRANULAR FCC, USP, J.T. BAKER®

Must be subjected to further processing during the preparation of injectable dosage forms. Meets USP and FCC requirements. GMP manufactured product.

Preserve in tightly sealed containers.

Description	Pack type	Pk	Cat. No.
Sodium chloride 99.0-100.5% (dry basis), granular FCC, USP, J.T. Baker®	Bottle, WMA glass, black tamper evident cap	500 g	3628-01

DISODIUM HYDROGEN PHOSPHATE 98.0-100.5% (DRIED BASIS) USP, FCC, J.T. BAKER®

- Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
Disodium hydrogen phosphate 98.0-100.5% (dried basis) USP, FCC, J.T. Baker®	Bottle, wide mouth amber glass, black tamper evident cap	500 g	3827-01

DISODIUM HYDROGEN PHOSPHATE, ANHYDROUS 98.0-100.5% (DRIED BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

- GMP manufactured product

Description	Pack type	Pk	Cat. No.
Disodium hydrogen phosphate, anhydrous 98.0-100.5% (dried basis) USP, Multi-compendial, J.T. Baker®	Bottle, wide mouth amber glass, black tamper evident cap	500 g	3804-01

SODIUM DIHYDROGEN PHOSPHATE MONOHYDRATE 98.0-103.0% (BY ANHYDROUS BASIS), CRYSTALS USP, FCC, J.T. BAKER®

- Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
Sodium dihydrogen phosphate monohydrate 98.0-103.0% (by anhydrous basis), crystals USP, FCC, J.T. Baker®	Bottle, wide mouth amber glass, black tamper evident cap	500 g	3820-01

DISODIUM HYDROGEN PHOSPHATE HEPTAHYDRATE 98.0-100.5% (DYE BASIS) USP, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
Disodium hydrogen phosphate heptahydrate 98.0-100.5% (Dye basis) USP, J.T. Baker®	Bottle, wide mouth amber glass, black tamper evident cap	500 g	3803-01

BUFFER, PBS SOLUTION (PHOSPHATE BUFFERED SALINE), ULTRA PURE GRADE



Dulbecco's formulation without calcium and magnesium.

- Free from DNase, RNase or protease

137,7 mM sodium chloride, 2,7 mM potassium chloride, 9,55 mM phosphate buffer

pH @ 25 °C 7,1 to 7,7

Description	Pk	Cat. No.
Phosphate buffered saline (PBS), 1X solution, Dulbecco's formulation, sterile	20 L	K812-20L
Phosphate buffered saline (PBS), 1X solution, Dulbecco's formulation, sterile	500 ml	K812-500ML

PHOSPHATE BUFFERED SALINE (PBS), POWDERED, ULTRA PURE GRADE

PBS, Ultra Pure Grade is a powdered, magnesium- and calcium-free formulation of PBS suitable for cell culture and for use in flow cytometry applications

- Unsurpassed quality ideal for cell culture applications
- Suitable for flow cytometry applications
- Convenient powdered format is also available in single use packs
- Does not contain magnesium or calcium
- May be sterilized by filtration

pH at 25 °C, 1X PBS: 7.3 – 7.5

Conductivity at 25 °C, 1X PBS: 13,500 – 17,000 umhos

Preparation of PBS 1X

Dissolve 9.88 g of PBS powder in 1 litre of water to prepare a 1X PBS solution containing 137 mM sodium chloride, 2.7 mM potassium chloride and 9.8 mM phosphate buffer.

Description	Pk	Cat. No.
PBS powder, each pack prepares 1 litre of 10X concentrate	2	0780-2PK
PBS powder, sufficient to prepare 10 litres of 1X buffer	1	0780-10L
PBS powder, sufficient to prepare 50 litres of 1X buffer	1	0780-50L

PHOSPHATE BUFFERED SALINE (PBS) 1X, FOR BIOTECHNOLOGY

137 mM sodium chloride, 2,7 mM potassium chloride, 12 mM phosphate buffer

- Sterile
- pH 7,4

Description	Pk	Cat. No.
Phosphate buffered saline (PBS), 1X solution, sterile, pH 7,4	100 ml	E504-100ML
Phosphate buffered saline (PBS), 1X solution, sterile, pH 7,4	500 ml	E504-500ML

Description	Pk	Cat. No.
Buffer, PBS solution (phosphate buffered saline), Ultra Pure Grade		
Phosphate buffered saline (PBS), 1X solution, Dulbecco's formulation, sterile	500 ml	K812-500ML

PBS AND TBS WASH BUFFERS, ULTRA PURE GRADE

Wash buffers ideal for use in applications such as Western blotting and ELISA. Prevents high background by effectively removing unbound reagents.

Description	Pk	Cat. No.
TBS, 20X Ready-Pack™, each pack prepares 1 l of 20X concentrate, Ultra Pure Grade	2	0788-2PK
PBS, 20X liquid concentrate, prepares 20 l of 1X buffer, Ultra Pure Grade	1 L	E703-1L
PBS buffer solution 20X concentrate (phosphate buffered saline), Ultra Pure Grade	500 ml	E703-500ML
TBS, 20X liquid concentrate, prepares 80 l of 1X buffer, Ultra Pure Grade	4 L	J640-4L

ACETIC ACID GLACIAL 99.5-100.05% USP, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
Acetic acid glacial 99.5-100.05% USP, Multi-compendial, J.T. Baker®	Clear glass bottle in single shipper	500 ml	9526-01

CALCIUM CHLORIDE 1 MOL/L IN AQUEOUS SOLUTION FOR BIOTECHNOLOGY, STERILE

Sterile reagent for the preparation of competent cells for transformation.

Description	Pack type	Pk	Cat. No.
Calcium chloride 1 mol/l in aqueous solution for biotechnology, sterile	Plastic bottle	100 ml	E506-100ML
Calcium chloride 1 mol/l in aqueous solution for biotechnology, sterile	Plastic bottle	500 ml	E506-500ML

BUFFER, HEPES SOLUTION pH 7.3 (1 MOL/L)

Description	Pk	Cat. No.
HEPES buffer solution pH 7.3 (1 mol/l)	100 ml	J848-100ML
HEPES buffer solution pH 7.3 (1 mol/l)	500 ml	J848-500ML

MAGNESIUM CHLORIDE 1 MOL/L (2 N) IN AQUEOUS SOLUTION FOR BIOTECHNOLOGY, STERILE

A sterile reagent for the preparation of competent cells for transformation.

Description	Pack type	Pk	Cat. No.
Magnesium chloride 1 mol/l (2 N) in aqueous solution for biotechnology, sterile	Plastic bottle	100 ml	E525-100ML
Magnesium chloride 1 mol/l (2 N) in aqueous solution for biotechnology, sterile	Plastic bottle	500 ml	E525-500ML

SODIUM CHLORIDE 5 MOL/L (5 N) IN AQUEOUS SOLUTION FOR BIOTECHNOLOGY, STERILE

Common source of salts for media propagation of many organisms.

Description	Pack type	Pk	Cat. No.
Sodium chloride 5 mol/l (5 N) in aqueous solution for biotechnology, sterile	Plastic bottle	500 ml	E529-500ML

SODIUM HYDROXIDE SOLUTION 10 N, BIOTECH REAGENT, J.T. BAKER®

Made from Water for Injection U.S.P. and Sodium Hydroxide pellets, N.F.(Multi-Compendial) which meets BP, Ph.Eur. and JP Chemical Specifications

Filtered through a 0.2 micron filter.

Description	Pack type	Pk	Cat. No.
Sodium hydroxide solution 10 N, Biotech Reagent, J.T. Baker®	Polyethylene pail, screw top	1 L	0312-02

SULPHURIC ACID 95.0-98.0% NF, MULTI- COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
Sulphuric acid 95.0-98.0% NF, Multi-compendial, J.T. Baker®	Clear glass bottle (in single shipper)	500 ml	9671-02

AMPICILLIN SODIUM SALT USP, ULTRA PURE GRADE

Interferes with formation of bacterial cell wall.
Working concentration: 50 µg/ml.

Description	Pack type	Pk	Cat. No.
Ampicillin sodium salt USP, Ultra Pure Grade	Plastic bottle for solids	25 g	0339-EU-25G

CHLORAMPHENICOL 97.0-103.0%, ULTRA PURE GRADE

Inhibits protein synthesis at peptidyltransferase.
Recommended working concentration: 20 µg/ml.

Description	Pack type	Pk	Cat. No.
Chloramphenicol 97.0-103.0%, Ultra Pure Grade	Plastic bottle for solids	100 g	0230-EU-100G

CYCLOHEXIMIDE ≥90.0%

Inhibits DNA and protein synthesis.

Description	Pack type	Pk	Cat. No.
Cycloheximide ≥90.0%	Glass bottle	1 g	441892A
Cycloheximide ≥90.0%	Glass bottle	10 g	441894C

CYCLOHEXIMIDE, ULTRA PURE GRADE

Inhibitor of protein synthesis in eucaryotic organisms. Widely used to determine protein half-life and as a selection agent for yeast and fungi. Working concentration: 100 to 1000 µg/ml.

Description	Pack type	Pk	Cat. No.
Cycloheximide, Ultra Pure Grade	Glass bottle	1 g	94271-1G
Cycloheximide, Ultra Pure Grade	Glass bottle	5 g	94271-5G

HYGROMYCIN B 50 MG/ML IN SOLUTION, ULTRA PURE GRADE

An aminoglycoside antibiotic that inhibits protein synthesis in bacteria, fungi and higher eucaryotic cells. Inhibits chain elongation. Widely used as a selection agent for prokaryotic and eucaryotic cells carrying the hygromycin resistance gene.

- Purity (by HPLC): 80%
- Recommended working concentration: 100 µg/ml

Store between 2 and 8 °C.

Description	Pack type	Pk	Cat. No.
Hygromycin B 50 mg/ml in solution, Ultra Pure Grade	Vial	20 ml	K547-20ML

KANAMYCIN SULPHATE, ULTRA PURE GRADE

Binds to the 70S subunit of bacterial ribosome.
Recommended working concentration: 30 µg/ml.

Description	Pack type	Pk	Cat. No.
Kanamycin sulphate, Ultra Pure Grade	Plastic bottle for solids	10 g	0408-EU-10G
Kanamycin sulphate, Ultra Pure Grade		10 kg	0408-EU-10KG

KANAMYCIN SULPHATE 50 MG/ML IN SOLUTION, ULTRA PURE GRADE

Kanamycin is an aminoglycoside antibiotic that inhibits protein synthesis in gram-negative and gram-positive bacteria and in mycoplasma. Recommended working concentration: 30 µg/ml.

Description	Pack type	Pk	Cat. No.
Kanamycin sulphate 50 mg/ml in solution, Ultra Pure Grade	Vial	20 ml	E713-20ML

NALIDIXIC ACID ≥98%, HIGH PURITY

A bactericidal agent that inhibits DNA gyrase activity.
Recommended working concentration: 15 µg/ml.

Description	Pack type	Pk	Cat. No.
Nalidixic acid ≥98%, high purity	Plastic bottle for solids	250 g	0677-250G
Nalidixic acid ≥98%, high purity	Plastic bottle for solids	50 g	0677-50G

NEOMYCIN SULPHATE, ULTRA PURE GRADE

Antibiotic. Causes miscoding during protein synthesis.
Recommended working concentration: 50 µg/ml.

Description	Pack type	Pk	Cat. No.
Neomycin sulphate, Ultra Pure Grade	Plastic bottle for solids	25 g	0558-EU-25G

PENICILLIN : STREPTOMYCIN FOR TISSUE CULTURE, Γ-IRRADIATED

Aseptic, gamma-irradiated, tissue culture tested. 10 000 U/ml penicillin. 10 mg/ml streptomycin solution when reconstituted in 20 ml of sterile water.

Description	Pack type	Pk	Cat. No.
Penicillin : Streptomycin for tissue culture, γ-irradiated	Vial	20 ml	E490-20ML

STREPTOMYCIN SULPHATE, ULTRA PURE GRADE

30 µg/ml, binds to the 30S subunit of bacterial ribosome.

Description	Pack type	Pk	Cat. No.
Streptomycin sulphate, Ultra Pure Grade	Plastic bottle for solids	50 g	0382-EU-50G
Streptomycin sulphate, Ultra Pure Grade	Plastic bottle for solids	100 g	0382-EU-100G

STREPTOZOCIN, ULTRA PURE GRADE

Selection agent, mutagenic agent, and diabetes inducer.

Description	Pack type	Pk	Cat. No.
Streptozocin, Ultra Pure Grade	Glass bottle	1 g	N407-1G

TETRACYCLINE HYDROCHLORIDE, ULTRA PURE GRADE

Blocks the binding of tRNA to the 30S subunit.
Recommended working concentration: 15 µg/ml.

Description	Pack type	Pk	Cat. No.
Tetracycline hydrochloride, Ultra Pure Grade	Glass bottle	25 g	0422-EU-25G

L-ALANINE ≥99%, HIGH PURITY

Non animal origin. White crystalline powder.

Non polar. Aliphatic amino acid. Non essential amino acid. Common component of culture media. Involved in regulation of a variety of metabolic functions.

Description	Pack type	Pk	Cat. No.
L-Alanine ≥99%, high purity	Plastic bottle for solids	100 g	0106-100G
L-Alanine ≥99%, high purity	Plastic bottle for solids	500 g	0106-500G

L(+)-ARGININE 98.5-101.5% (DRIED BASIS) USP, FCC, MULTI-COMPENDIAL, MACRON FINE CHEMICALS™

Description	Pack type	Pk	Cat. No.
L(+)-Arginine 98.5-101.5% (dried basis) USP, FCC, Multi-compendial, Macron Fine Chemicals™	White poly bottle, blue tamper evident cap	1 kg	4932-06

L(+)-ARGININE HYDROCHLORIDE 98.5-101.5% (DRIED BASIS) USP, FCC, MULTI-COMPENDIAL, MACRON FINE CHEMICALS™

Description	Pack type	Pk	Cat. No.
L(+)-Arginine hydrochloride 98.5-101.5% (dried basis) USP, FCC, Multi-compendial, Macron Fine Chemicals™	White poly bottle, blue tamper evident cap	1 kg	4930-06

L(+)-ARGININE USP, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L(+)-Arginine USP, Multi-compendial, J.T. Baker®	Plastic bottle for solids	1 kg	2066-06

L(+)-ASPARAGINE, ANHYDROUS ≥99.0%, HIGH PURITY

Animal-free amino acid. Polar. Amide.

Description	Pack type	Pk	Cat. No.
L(+)-Asparagine, anhydrous ≥99.0%, high purity	Plastic bottle for solids	100 g	94341-100G

L(+)-ASPARTIC ACID ≥98%, HIGH PURITY

Animal-free amino acid. Polar. Acidic.

Description	Pack type	Pk	Cat. No.
L(+)-Aspartic acid ≥98%, high purity	Plastic bottle for solids	1 kg	0192-1KG
L(+)-Aspartic acid ≥98%, high purity	Plastic bottle for solids	500 g	0192-500G

L(+)-CYSTEINE HYDROCHLORIDE MONOHYDRATE 98.5-101.5% (DRY BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L(+)-Cysteine hydrochloride monohydrate 98.5-101.5% (dry basis) USP, Multi-compendial, J.T. Baker®	Plastic bottle for solids	100 g	2071-05

L(+)-GLUTAMINE ≥98.5%, HIGH PURITY

Non-animal origin. Fine white powder

Description	Pack type	Pk	Cat. No.
L(+)-Glutamine ≥98.5%, high purity	Plastic bottle for solids	500 g	0374-500G
L(+)-Glutamine ≥98.5%, high purity	Plastic bottle for solids	1 kg	0374-1KG

L(+)-GLUTAMIC ACID 98.5-100.5% PH. EUR.

Description	Pack type	Pk	Cat. No.
L(+)-Glutamic acid 98.5-100.5% Ph. Eur.	Plastic bottle for solids	250 g	20350.232

L(+)-GLUTAMINE 98.5-101.5% (DRY BASIS) USP, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L(+)-Glutamine 98.5-101.5% (dry basis) USP, J.T. Baker®	Plastic bottle for solids	1 kg	2078-06

L(+)-GLUTAMINE, TECHNICAL

Description	Pack type	Pk	Cat. No.
L(+)-Glutamine, TECHNICAL	Plastic bottle for solids	100 g	24378.187

GLYCINE ≥99% FOR BIOTECHNOLOGY

Description	Pack type	Pk	Cat. No.
Glycine ≥99% for biotechnology	Plastic bottle for solids	1 kg	0167-1KG
Glycine ≥99% for biotechnology	Bucket (plastic)	5 kg	0167-5KG
Glycine ≥99% for biotechnology	Bucket (plastic)	10 kg	0167-10KG
Glycine ≥99% for biotechnology	Bucket (plastic)	12 kg	0167-12KG
Glycine ≥99% for biotechnology	Plastic drum	50 kg	0167-50KG

GLYCINE USP, FCC, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
Glycine USP, FCC, J.T. Baker®	Glass bottle for solids	500 g	0581-01

L(+)-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE 98.5-101.5% FCC

Animal-free amino acid. Polar. Basic.

Description	Pack type	Pk	Cat. No.
L(+)-Histidine monohydrochloride monohydrate 98.5-101.5% FCC	Plastic bottle for solids	100 g	E806-100G

L(+)-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE 98.5-101.5% (DRIED BASIS) FCC, MULTI-COMPENDIAL, MACRON FINE CHEMICALS™

Description	Pack type	Pk	Cat. No.
L(+)-Histidine monohydrochloride monohydrate 98.5-101.5% (dried basis) FCC, Multi-compendial, Macron Fine Chemicals™	White poly bottle, blue tamper evident cap	1 kg	4942-06

L(+)-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L(+)-Histidine monohydrochloride monohydrate, Multi-compendial, J.T. Baker®	White poly bottle, blue tamper evident cap	1 kg	2081-06

L(+)-HISTIDINE USP, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L(+)-Histidine USP, Multi-compendial, J.T. Baker®	Glass bottle for solids	100 g	2080-05

L- α -PHENYLALANINE 98.5-101.5% (DRIED BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

– Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
L- α -Phenylalanine 98.5-101.5% (dried basis) USP, Multi-compendial, J.T. Baker®	White poly bottle, blue tamper evident cap	1 kg	2086-06

L-(+)-SERINE 98.5-101.5% (DRIED BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

– Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
L-(+)-Serine 98.5-101.5% (dried basis) USP, Multi-compendial, J.T. Baker®	White poly bottle, blue tamper evident cap	1 kg	2088-06

L-THREONINE 98.5-101.5% (DRIED BASIS) USP, MULTI-COMPENDIAL, J.T. BAKER®

– Food GMP manufactured product

Description	Pack type	Pk	Cat. No.
L-Threonine 98.5-101.5% (dried basis) USP, Multi-compendial, J.T. Baker®	White poly bottle, blue tamper evident cap	1 kg	2089-06

L-TYROSINE DISODIUM SALT DIHYDRATE \geq 98%, BAKER ANALYZED®, BIOCHEMICAL REAGENT, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
L-Tyrosine disodium salt dihydrate \geq 98%, BAKER ANALYZED®, Biochemical Reagent, J.T. Baker®	White poly bottle, blue tamper evident cap	100 g	2094-05

L-(+)-VALINE 98.5-101.5% (DRIED BASIS) USP, FCC, MULTI-COMPENDIAL, MACRON FINE CHEMICALS™

Description	Pack type	Pk	Cat. No.
L-(+)-Valine 98.5-101.5% (dried basis) USP, FCC, Multi-compendial, Macron Fine Chemicals™	White poly bottle, blue tamper evident cap	1 kg	4936-06

D-(-)-FRUCTOSE \geq 99.0%, ANALAR NORMAPUR® ANALYTICAL REAGENT

Description	Pack type	Pk	Cat. No.
D-(-)-Fructose \geq 99.0%, AnalAR NORMAPUR® analytical reagent	Plastic bottle for solids	500 g	103674Y

D-(-)-FRUCTOSE \geq 99%, HIGH PURITY

Description	Pack type	Pk	Cat. No.
D-(-)-Fructose \geq 99%, high purity	Plastic bottle	1 kg	0226-1KG
D-(-)-Fructose \geq 99%, high purity	Bucket (plastic)	5 kg	0226-5KG
D-(-)-Fructose \geq 99%, high purity	Bucket (plastic)	12 kg	0226-12KG

D-(-)-FRUCTOSE, GPR RECTAPUR®

Description	Pack type	Pk	Cat. No.
D-(-)-Fructose, GPR RECTAPUR®	Plastic bottle for solids	1 kg	24975.294

D-(+)-GALACTOSE \geq 99.0%, HIGH PURITY

Description	Pack type	Pk	Cat. No.
D-(+)-Galactose \geq 99.0%, high purity	Plastic bottle for solids	100 g	0637-100G
D-(+)-Galactose \geq 99.0%, high purity	Plastic bottle for solids	250 g	0637-250G
D-(+)-Galactose \geq 99.0%, high purity	Plastic bottle for solids	500 g	0637-500G

D-(+)-GALACTOSE \geq 99% (BY HPLC), MULTI-COMPENDIAL LOW IN ENDOTOXINS, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
D-(+)-Galactose \geq 99% (by HPLC), Multi-compendial low in endotoxins, J.T. Baker®	Polyethylene pail, screw top	1 kg	6322-05

D-(+)-GALACTOSE \geq 98.5%, GPR RECTAPUR®

Description	Pack type	Pk	Cat. No.
D-(+)-Galactose \geq 98.5%, GPR RECTAPUR®	Plastic bottle for solids	100 g	24333.183
D-(+)-Galactose \geq 98.5%, GPR RECTAPUR®	Plastic bottle for solids	1 kg	24333.296

D-(+)-GLUCOSE \geq 99.5% FOR BIOTECHNOLOGY

Sugar used as an energy source in specialised media.

Description	Pack type	Pk	Cat. No.
D-(+)-Glucose \geq 99.5% for biotechnology	Plastic bottle for solids	500 g	0188-500G
D-(+)-Glucose \geq 99.5% for biotechnology	Plastic bottle for solids	1 kg	0188-1KG
D-(+)-Glucose \geq 99.5% for biotechnology	Plastic bottle for solids	2.5 kg	0188-2.5KG
D-(+)-Glucose \geq 99.5% for biotechnology	Bucket (Plastic)	5 kg	0188-5KG
D-(+)-Glucose \geq 99.5% for biotechnology	Bucket (Plastic)	12 kg	0188-12KG
D-(+)-Glucose \geq 99.5% for biotechnology	Plastic drum	50 kg	0188-50KG

D-(+)-GLUCOSE, ANHYDROUS 97.5-102.0% (BY ANHYDROUS BASIS) USP, J.T. BAKER®

– GMP manufactured product

Description	Pack type	Pk	Cat. No.
D-(+)-Glucose, anhydrous 97.5-102.0% (by anhydrous basis) USP, J.T. Baker®	White poly bottle, blue T/E cap	500 g	1919-01

D-(+)-GLUCOSE, ANALAR NORMAPUR® ANALYTICAL REAGENT

Description	Pack type	Pk	Cat. No.
D-(+)-Glucose, AnalAR NORMAPUR® analytical reagent	Plastic bottle for solids	500 g	101174Y
D-(+)-Glucose, AnalAR NORMAPUR® analytical reagent	Plastic bottle for solids	1 kg	101175P
D-(+)-Glucose, AnalAR NORMAPUR® analytical reagent	Plastic bottle for solids	2.5 kg	101176K

D-(+)-GLUCOSE MONOHYDRATE FOR BIOCHEMISTRY

Description	Pack type	Pk	Cat. No.
D-(+)-Glucose monohydrate for biochemistry	Plastic bottle for solids	1 kg	24371.297
D-(+)-Glucose monohydrate for biochemistry	Bucket (Plastic)	5 kg	24371.366

D-(+)-GLUCOSE, ANHYDROUS, GPR RECTAPUR®

Description	Pack type	Pk	Cat. No.
D-(+)-Glucose, anhydrous, GPR RECTAPUR®	Plastic bottle for solids	1 kg	24379.294
D-(+)-Glucose, anhydrous, GPR RECTAPUR®	Bucket (Plastic)	5 kg	24379.363
D-(+)-Glucose, anhydrous, GPR RECTAPUR®	Bucket (Plastic)	25 kg	24379.465

D-(+)-MALTOSE MONOHYDRATE ≥85%, REAGENT GRADE

Common media additive, particularly for the cultivation of lambda phage.

Description	Pack type	Pk	Cat. No.
D-(+)-Maltose monohydrate ≥85%, Reagent Grade	Plastic bottle for solids	100 g	1B1184-100G
D-(+)-Maltose monohydrate ≥85%, Reagent Grade	Plastic bottle for solids	500 g	1B1184-500G
D-(+)-Maltose monohydrate ≥85%, Reagent Grade	Plastic bottle for solids	1 kg	1B1184-1KG

D-(+)-MALTOSE MONOHYDRATE, GPR RECTAPUR®

Description	Pack type	Pk	Cat. No.
D-(+)-Maltose monohydrate, GPR RECTAPUR®	Plastic bottle for solids	100 g	25188.187
D-(+)-Maltose monohydrate, GPR RECTAPUR®	Plastic bottle for solids	1 kg	25188.291

D-(-)-MANNITOL 97.0-102.0% (DRY BASIS), POWDER USP, MULTI-COMPENDIAL GMP MANUFACTURED PRODUCT, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
D-(-)-Mannitol 97.0-102.0% (dry basis), powder USP, Multi-compendial GMP Manufactured Product, J.T. Baker®	White poly bottle, blue tamper evident cap	500 g	2553-01

D-(-)-MANNITOL ANALYTICAL REAGENT

Description	Pack type	Pk	Cat. No.
D-(-)-Mannitol analytical reagent	Plastic bottle for solids	500 g	25314.264

D-(+)-SUCROSE, GPR RECTAPUR®

Description	Pack type	Pk	Cat. No.
D-(+)-Sucrose, GPR RECTAPUR®	Plastic bottle for solids	1 kg	27478.296
D-(+)-Sucrose, GPR RECTAPUR®	Plastic bottle for solids	5 kg	27478.365
D-(+)-Sucrose, GPR RECTAPUR®	Bucket (Plastic)	25 kg	27478.467

D-(+)-SUCROSE, ANALAR NORMAPUR® ANALYTICAL REAGENT

Description	Pack type	Pk	Cat. No.
D-(+)-Sucrose, AnalaR NORMAPUR® analytical reagent	Plastic bottle for solids	1 kg	27480.294
D-(+)-Sucrose, AnalaR NORMAPUR® analytical reagent	Plastic bottle for solids	5 kg	27480.360

FICOLL® 400, BIOTECHNOLOGY GRADE



Ficoll® 400 is a neutral, hydrophilic polymer of sucrose, which readily dissolves in aqueous solutions.

Ficoll® is a registered trademark of GE Healthcare group of companies.

Description	Pk	Cat. No.
Ficoll® 400, biotechnology grade	50 g	E965-50G
Ficoll® 400, biotechnology grade	100 g	E965-100G

D-(+)-SUCROSE (FROM SUGAR CANE) ≥99% (BY HPLC) NF, MULTI-COMPENDIAL LOW IN ENDOTOXINS, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
D-(+)-Sucrose (from sugar cane) ≥99% (by HPLC) NF, Multi-compendial low in endotoxins, J.T. Baker®	Polyethylene pail, screw top	1 kg	6320-05

D-(+)-SUCROSE (BEET DERIVED) NF, HPLE, MULTI-COMPENDIAL PARENTERAL GRADE LOW IN ENDOTOXINS, J.T. BAKER®

Suitable for use in the manufacture of parenteral dosage forms.

- High purity
- Low endotoxin
- Beet derived

Description	Pack type	Pk	Cat. No.
D-(+)-Sucrose (beet derived) NF, HPLE, multi-compendial Parenteral Grade low in endotoxins, J.T. Baker®	Polyethylene pail, screw top	1 kg	6321-05

D-(+)-SUCROSE, CRYSTALS NF, MULTI-COMPENDIAL, J.T. BAKER®

Description	Pack type	Pk	Cat. No.
D-(+)-Sucrose, crystals NF, Multi-compendial, J.T. Baker®	White poly bottle, blue tamper evident cap	500 g	4074-01

D-(+)-TREHALOSE DIHYDRATE 97.0-102.0% (BY HPLC) NF, HPLE, MULTI-COMPENDIAL PARENTERAL GRADE, J.T. BAKER®

- High purity
- Low endotoxin

For manufacturing, processing or repackaging.

Description	Pack type	Pk	Cat. No.
D-(+)-Trehalose dihydrate 97.0-102.0% (by HPLC) NF, HPLE, multi-compendial Parenteral Grade, J.T. Baker®	Polyethylene pail, screw top	1 kg	6324-05



CELL STRAINERS

Manufactured from a strong nylon mesh with evenly spaced mesh pores, these cell strainers are sterile, easy to use devices for quickly isolating primary cells to consistently obtain a uniform single-cell suspension from tissues. Designed to protect valuable flow cytometry and cell sorting instrumentation by reliably removing clumps and debris from cell suspensions and clinical samples prior to analysis.

- Available in three mesh sizes with different colours for easy identification
- Extended lip on the strainer enables aseptic handling with forceps
- Ready to use, sterilised by electron beam irradiation
- Individually wrapped
- Fit into most 50 ml conical tubes
- Free from DNase and RNase, non pyrogenic

ISO 9001, ISO 13485

Description	Pk	Cat. No.
Cell strainers, 40 µm pore size, blue frame	50	732-2757
Cell strainers, 70 µm pore size, white frame	50	732-2758
Cell strainers, 100 µm pore size, yellow frame	50	732-2759



SYRINGE FILTERS, ACRODISC®, SUPOR®

Low protein binding filters for sterile filtration of biological samples, serum and cell culture media.

Supor® hydrophilic polyethersulfone (PES) membrane: PP housing (except 25 and 32 mm: Acrylic and Acrodisc Serum: ABS)

Acrodisc® and Acrodisc® PF syringe filters with 0,2 µm Supor® membrane were challenged with bovine serum or a bacterial culture (10⁻⁷ cfu/ml) at a constant pressure of 1,4 bar. Built-in prefilter enhances throughput of viscous, particulate-laden or proteinaceous solutions.

Ø (mm)	Pore size	Inlet/outlet	Max. temperature (°C)	Max. pressure (bar)	Water flow rate
Acrodisc Supor®					
13	0,2 µm	Luer lock female/Luer male	55	5,2	22 ml/min (3,1 bar)
	0,45 µm				35 ml/min (3,1 bar)
25	0,2 µm				175 ml/min (3,1 bar)
	0,45 µm				300 ml/min (3,1 bar)
32	0,2 µm				490 ml/min (3,1 bar)
	0,45 µm				700 ml/min (3,1 bar)
	5 µm	1750 ml/min (3,1 bar)			
Acrodisc Supor® PF with membrane prefilter					
25	0,8/0,2 µm	Luer lock female/Luer male	55	5,2	145 ml/min (3,1 bar)
32	0,8/0,2 µm				440 ml/min (3,1 bar)
Serum Acrodisc® with glass fibre prefilter					
37	GF/0,2 µm	Luer lock female/Luer male	55	5,2	425 ml/min (3,1 bar)

Pore size (µm)	Filtration area (cm ²)	Ø (mm)	Sterile	Pk	Cat. No.
Acrodisc Supor®					
0,2	1	13	+	75	514-4122
0,45	1	13	+	75	514-4123
0,2	2,8	25	+	50	514-4126
0,45	2,8	25	+	50	514-4127
0,2	5,8	32	+	50	514-4131
0,45	5,8	32	+	50	514-4133
5,0	5,8	32	+	50	514-4129
Acrodisc Supor® PF with membrane prefilter					
0,8/0,2	2,8	25	+	50	514-4102
0,8/0,2	5,8	32	+	50	514-4136
Serum Acrodisc® with glass fibre prefilter					
GF/0,2	7,5	37	+	20	514-4119



SYRINGE FILTERS, ACRODISC® DMSO-SAFE

For solutions containing dimethylsulfoxide (DMSO).
Sterilisation of media used for cell cryopreservation.

Nylon membrane, PP housing, sterile

Inlet/outlet	Female Luer lock, male slip Luer
Max. temperature (°C)	55
Max. pressure (bar)	6,2
Water flow rate	60 ml/min (2,1 bar)

Type	Pore size (µm)	Filtration area (cm ²)	Ø (mm)	Sterile	Pk	Cat. No.
DMSO-Safe	0,2	2,8	25	+	50	514-4011



SYRINGE FILTERS

Available with either cellulose acetate or PES membrane. Sterile membranes with 0,2 µm pore size are ideal for sterile filtration applications, whilst those with 0,45 µm pore size can be used for clarifications. These sterile syringe filters are gamma irradiated to prevent cytotoxic residues caused by alternative sterilisation methods.

- Cellulose acetate membrane surfaces are not treated by wetting agents. This is especially useful for cell culture applications
- PES membranes show very low levels of extractables and high flow rates. Ideal for cell culture applications
- Certified non pyrogenic and non cytotoxic
- Delivered with certificate

** Retains 10⁷ *brevundimonas diminuta* per cm² according to modified ASTM F838

Pore size (µm)	Ø (mm)	Sterile	Pk	Cat. No.
Cellulose acetate membrane				
0,2 **	25	+	50	514-0061
0,2 **	25	-	100	514-0060
0,45	25	+	50	514-0063
0,45	25	-	100	514-0062
PES membrane				
0,2 **	25	+	50	514-0073
0,2 **	25	-	100	514-0072
0,45	25	+	50	514-0075
0,45	25	-	100	514-0074



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FILTRATION CAPSULES, ACROPAK™ 20

AcroPak™ 20 capsule filters are designed to efficiently process up to 2 litres of chemical and biological fluids. These filters are available in 3 different membrane types.

Supor®

The Supor® membrane has high flow rates and throughputs, and is ideal for solutions where low protein binding is required. Not recommended for use with some ketones. For sterile filtration of media and buffers.

- Built-in prefilter extends filter life when particulate-laden solutions such as serum-containing media are processed
- Sterilisation by gamma irradiation eliminates potential contamination by EtO residuals
- PP housing and vent plug, PC filling bell, Supor® (hydrophilic PES) membrane
- Suitable for use with fluids containing dilute proteins, preservatives, or other critical components

Supor® EKV

Built-in MachV asymmetric pre-filter layer for maximum flow and throughput performance. For Sterile filtration of media and buffers.

- Disposable for reduced labour and associated costs
- Significantly reduces the cost of repeat testing when scaling up your filtration system
- Ideal for filtering aqueous solutions, cell culture media and serum
- Suitable for use with fluids containing dilute proteins, preservatives, or other critical components

Fluorodyne® II

The Fluorodyne® II membrane is compatible with aqueous and many organic solvents.

- Double layer sterilising membrane enhances reliability
- Upstream air vent prevents vapour lock
- Manufactured without the use of adhesives to minimise extractables

Supor and Supor EKV can withstand one autoclave cycle at 125 °C (257 °F) for 60 minutes; water wet capsule prior to autoclaving. Fluorodyne II can withstand one autoclave cycle at 131 °C (268 °F) for 30 min.

Type	Supor®
Inlet/outlet	6,4 - 12,7 mm Ø stepped hose barb with female Luer slip interior and filling bell outlet
Max. temperature (°C)	60
Max. pressure (bar)	4,1

Description	Type	Pore size (µm)	Filtration area (cm ²)	Pk	Cat. No.
Supor® membrane					
AcroPak™ 20	Supor®, gamma-irradiated	0,8/0,2	20	3	514-4097



FILTRATION CAPSULES, ACROPAK™

A filter for every step in your process. From drug discovery and basic research to process development and production, Pall Laboratory's AcroPak capsules come in a variety of membrane types and volume sizes.

- 100% integrity tested (where noted)
- Endotoxin level: <0,25 EU/ml using Limulus Amebocyte Lysate test
- Bacterial retention: 0,2 µm lot samples retain 10⁷ cfu/cm² of B. diminuta per modified ASTM F838
- Mycoplasma reduction: 0,1 µm lot samples retain 10⁷ cfu/cm² A. Laidlawii per modified ASTM F838
- Biological safety: Passes United States Pharmacopeia (USP) biological reactivity test in vivo <88>
- Sterilisation by gamma irradiation

Primary applications include: Buffer media and reagent manufacturing, protein purification and cell culture and bioburden filtration.

Supor PES (Polyethersulfone):

With high flow and capacity, broad fluid compatibility, low protein adsorption, active ingredients, and stabilizers, Pall PES membranes are best suited for filtration of preparative fluids such as buffers, media, and bioprocess intermediates.

Supor EKV Asymmetric PES:

PES filters with asymmetric membrane layers have the same benefits of Supor PES (above), but with additional debris holding. This makes them ideal for high turbidity, high bioburden solutions. All Supor EKV products are a 0,65 µm pre-filter and a 0,2 µm asymmetric membrane.

Fluorodyne II PVDF (hydrophilic polyvinylidene fluoride):

Low extractables, low product and excipient adsorption, simple validation for the sterilization of a wide range of formulations make PVDF membranes ideal for final filtration.

Description	Pore size	Filtration area (cm ²)	Connection	Pk	Cat. No.
Supor membrane					
AcroPak™ 200	0,8/0,2 µm	200	Stepped hose barb	3	514-4098



VENTING FILTERS, ACRO® 50

Reusable filters with superior performance for critical applications, ideal for use with bioreactors and fermenters and for filtration of aggressive solvents.

Membrane: PTFE on a hydrophobic PP support; housing: PP, autoclavable

* inlet/outlet: 1/8" MNPT

** inlet/outlet: 9,5 mm diameter straight

Pore size	0,2 µm	0,45 µm	1 µm
Ø (mm)	50		
Airflow rate	8 l/min (0,2 bar)	12 l/min (0,2 bar)	15 l/min (0,2 bar)
Max. pressure (bar)	4,1		
Max. temperature (°C)	130		
Inlet/outlet	Stepped hose barbs 6,4 - 12,7 mm Ø		1/8" MNPT

Pore size (µm)	Filtration area (cm ²)	Pk	Cat. No.
0,2	19,6	18	514-4109
0,45	19,6	18	514-4110
1	19,6	18	514-4111
1 *	19,6	18	515-0125



Bacterial air vents

BACTERIAL AIR VENTING FILTERS

Economical, disposable depth filter for venting applications. Hydrophobic media allows air and gasses to pass freely while blocking aqueous fluid and aerosol contaminants.

- Use as a vent device for receiving vessels and small isolation or environmental chambers
- Recommended for small-volume venting and degassing

Hydrophobic glass laminated (polyester/glass fibre/polyester) membrane; PP housing

Aerosol retention: 99,97% 0,3 µm (DOP) at 32 l/min/100 cm²

* Sterilised by gamma irradiation

Ø (mm)	37
Airflow rate	40 l/min (0,4 bar)
Max. pressure (bar)	5,2
Max. temperature (°C)	121
Inlet/outlet	stepped hose barbs 6,4 - 12,7 mm Ø

Pore size (µm)	Filtration area (cm ²)	Ø (mm)	Pk	Cat. No.
1*	7,5	37	10	514-4114
1	7,5	37	24	514-4107



VENTING FILTERS, VACUSHIELD™

Protects valves and pump components from damage due to liquids. Protects laboratory personnel from potential biohazards, airborne and aerosol contaminants.

Hydrophobic PTFE membrane, PP housing

Aerosol retention: 99,97% of 0,3 µm DOP particles at 32 l/min/100 cm²

Ø (mm)	50
Airflow rate	8 l/min (0,2 bar)
Max. pressure (bar)	1
Max. temperature (°C)	130
Inlet/outlet	for tubing Ø 6,4 - 12,7

Pore size (µm)	Filtration area (cm ²)	Ø (mm)	Pk	Cat. No.
0,2	19,6	50	3	514-4115



Acro® 37 TF vent devices

VENTING FILTERS, ACRO® 37 TF

Multipurpose filter for small volume venting and gas filtration, ideal for small bioreactors and fermenters.

- Broad chemical compatibility
- Disposable

Hydrophobic membrane PP reinforced PTFE; PP housing

Ø (mm)	37
Airflow rate	3,58 l/min (0,2 bar)
Max. pressure (bar)	4,1
Max. temperature (°C)	100
Inlet/outlet	stepped hose barbs 6,4 - 9,5 mm Ø

Pore size (µm)	Filtration area (cm ²)	Ø (mm)	Pk	Cat. No.
0,2	7,5	37	24	514-4117
0,2	7,5	37	200	514-4118



BOTTLE TOP VACUUM FILTRATION SYSTEMS, VACUCAP®, SUPOR®

Supor® hydrophilic polyethersulphone (PES) membrane; PP housing. VacuCap® filtration device eliminates the need to constantly refill funnel in traditional bottle top filters as it draws directly from the mixing reservoir. The patented small design accepts a variety of collection vessels and reduces laboratory storage space and waste. The Supor® membrane in the VacuCap® 60 and VacuCap® 90 devices provides high flow rates for fast vacuum filtration of 100 ml to 5 litres of aqueous solutions and is available with prefilter to increase throughput of particulate laden solutions.

- Excellent for cell culture media preparation and available with 0,1 µm pore size to remove mycoplasma
- Pre-sterilised by gamma irradiation to eliminate contamination by EtO residuals, individually packed
- Environmentally friendly design with minimal plastic waste

* with prefilter

** with individually attached tubing

Environmentally preferable Waste Reducing

Type	Pore size (µm)	Membrane Ø (mm)	Filtration area (cm²)	Pk	Cat. No.
VacuCap® 60	0,1	60	30	10	515-0016
VacuCap® 60	0,2	60	30	10	515-0017
VacuCap® 60	0,2 **	60	30	10	516-9813
VacuCap® 60	0,45	60	30	10	515-0018
VacuCap® 60 PF	0,8/0,2 *	60	30	10	515-0019
VacuCap® 90	0,1	90	60	10	515-0012
VacuCap® 90	0,2	90	60	10	515-0013
VacuCap® 90	0,2 **	90	60	10	516-9812
VacuCap® 90	0,45	90	60	10	515-0014
VacuCap® 90 PF	0,8/0,2 *	90	60	10	515-0015



Acro® 50 vent devices

VENTING FILTERS, ACRO® 50

These filters are ideal for venting of bioreactors, fermentation tanks and carboys or sterile gas purging of culture vessels. Ideal for attachment to disposable systems that need to undergo gamma irradiation.

- Connects easily to hoses of various sizes in-line or as a final filter
- Light weight prevents crimping of tubing
- Excellent for disposable systems. Eliminates cleaning validation

Emflon® II (hydrophobic PVDF) membrane; PP housing

Ø (mm)	50
Airflow rate	27 l/min (1 bar)
Max. pressure (bar)	4,1
Max. temperature (°C)	60
Inlet/outlet	stepped hose barbs 6,4 - 12,7 mm Ø

Type	Pore size (µm)	Filtration area (cm²)	Ø (mm)	Pk	Cat. No.
Filter with vent	0,2	20	50	3	514-4227



BOTTLE-TOP VACUUM FILTRATION SYSTEMS, PES

PS funnel and collection reservoir. Systems for vacuum filtration of aqueous solutions including cell culture media, buffers or other biological fluids.

- Each individual unit is lot numbered for traceability
- Once filtration is complete, solution can be stored in the collection reservoir until needed
- Non pyrogenic, non cytotoxic

PES membrane: Low protein binding and low extractables. Ideal for tissue culture applications.

0,2 µm: Ideal for sterilisation applications and media preparation.

0,45 µm: Ideal for buffer clarification.

ISO 10993-5:1999

Full unit includes the filtration funnel with either 0,2, or 0,45 µm PES membrane, vacuum port, lid, collection reservoir and cap for storage.

Individually packed in easy peel-to-open bags, receiver bottle cap is individually wrapped.

Description	Capacity (ml)	Pore size (µm)	Membrane Ø (mm)	Pk	Cat. No.
Complete filtration units					
Complete filtration unit	150	0,2	50	12	514-0328
Complete filtration unit	150	0,45	50	12	514-0329
Complete filtration unit	250	0,2	50	12	514-0330
Complete filtration unit	250	0,45	50	12	514-0331
Complete filtration unit	500	0,2	75	12	514-0332
Complete filtration unit	500	0,45	75	12	514-0333
Complete filtration unit	1000	0,2	91	12	514-0334
Complete filtration unit	1000	0,45	91	12	514-0335
Filtration cups only					
Filtration cup	150	0,2	50	24	514-0336
Filtration cup	150	0,45	50	24	514-0337
Filtration cup	250	0,2	50	24	514-0338
Filtration cup	250	0,45	50	24	514-0339
Filtration cup	500	0,2	75	24	514-0340
Filtration cup	500	0,45	75	24	514-0341
Filtration cup	1000	0,2	91	24	514-0342
Filtration cup	1000	0,45	91	24	514-0343
PS reservoir bottles (caps included)					
Reservoir bottle with cap	150			24	514-0344
Reservoir bottle with cap	250			24	514-0345
Reservoir bottle with cap	500			24	514-0346
Reservoir bottle with cap	1000			24	514-0347



BOTTLE-TOP VACUUM FILTRATION SYSTEMS, PVDF, SFCA, NYLON

These vacuum filter units are very useful in large volume samples separation and purification.

- Large knurls on the reservoir bottle cap
- Wide and easy access bottle mouth for efficient and stable pouring
- Engraved graduation
- Ergonomically designed side walls and collar
- Hose connector can fit multiple hose diameters
- Electron beam sterilised
- Non pyrogenic

PVDF membrane: Extremely low protein binding; for filtration of non aggressive aqueous and mild organic solutions, or where maximising protein recovery is important.

Nylon membrane: Provides a broad range of chemical compatibility for the filtration of either aqueous or organic solvents; hydrophobic; can be used in a broad pH range.

Each individual unit is lot numbered for easy identification and tracking.

Packed in easy peel-to-open plastic bags. Receiver bottle cap is individually wrapped.

Membrane	Capacity (ml)	Pore size (µm)	Membrane Ø (mm)	Pk	Cat. No.
Complete filtration units					
PVDF	150	0,10	50	12	514-1040
PVDF	150	0,22	50	12	514-1041
PVDF	150	0,45	50	12	514-1042
PVDF	250	0,10	50	12	514-1043
PVDF	250	0,22	50	12	514-1044
PVDF	250	0,45	50	12	514-1045
PVDF	500	0,10	75	12	514-1046
PVDF	500	0,22	75	12	514-1047
PVDF	500	0,45	75	12	514-1048
PVDF	1000	0,10	91	12	514-1049
PVDF	1000	0,22	91	12	514-1050
PVDF	1000	0,45	91	12	514-1051
SFCA	150	0,22	50	12	514-1052
SFCA	150	0,45	50	12	514-1053
SFCA	250	0,22	50	12	514-1054
SFCA	250	0,45	50	12	514-1055
SFCA	500	0,22	75	12	514-1056
SFCA	500	0,45	75	12	514-1057
SFCA	1000	0,22	91	12	514-1058
SFCA	1000	0,45	91	12	514-1059
Nylon	150	0,22	50	12	514-1060
Nylon	150	0,45	50	12	514-1061
Nylon	250	0,22	50	12	514-1062
Nylon	250	0,45	50	12	514-1063
Nylon	500	0,22	75	12	514-1064
Nylon	500	0,45	75	12	514-1065
Nylon	1000	0,22	91	12	514-1066
Nylon	1000	0,45	91	12	514-1067

Membrane	Capacity (ml)	Pore size (µm)	Membrane Ø (mm)	Pk	Cat. No.
Filtration cups only					
PVDF	150	0,10	50	24	514-1012
PVDF	150	0,22	50	24	514-1013
PVDF	150	0,45	50	24	514-1014
PVDF	250	0,10	50	24	514-1015
PVDF	250	0,22	50	24	514-1016
PVDF	250	0,45	50	24	514-1017
PVDF	500	0,10	75	24	514-1018
PVDF	500	0,22	75	24	514-1019
PVDF	500	0,45	75	24	514-1020
PVDF	1000	0,10	91	24	514-1021
PVDF	1000	0,22	91	24	514-1022
PVDF	1000	0,45	91	24	514-1023
SFCA	150	0,22	50	24	514-1032
SFCA	150	0,45	50	24	514-1033
SFCA	250	0,22	50	24	514-1034
SFCA	250	0,45	50	24	514-1035
SFCA	500	0,22	75	24	514-1036
SFCA	500	0,45	75	24	514-1037
SFCA	1000	0,22	91	24	514-1038
SFCA	1000	0,45	91	24	514-1039
Nylon	150	0,22	50	24	514-1024
Nylon	150	0,45	50	24	514-1025
Nylon	250	0,22	50	24	514-1026
Nylon	250	0,45	50	24	514-1027
Nylon	500	0,22	75	24	514-1028
Nylon	500	0,45	75	24	514-1029
Nylon	1000	0,22	91	24	514-1030
Nylon	1000	0,45	91	24	514-1031



24 Well filter plates

FILTER PLATES, 24 WELL, ACROPREP™

The AcroPrep 24-well filter plate utilises Pall's proprietary high-performance multi-layer filter media and membranes to offer time savings, strong performance claims and streamlined workflow improvements in a 24 well plate format.

- Intrinsic AcroPrep plate and membrane properties minimize sample loss from non-specific binding
- Dual layer clarification plate contains a depth filter plus 0,65/0,2 µm Supor EKV PES membrane and allow clarification of large cellular debris prior to filtration through the 0,65/0,2 µm EKV Supor membrane
- Dual layer clarification plate has reliable recovery of >95% of extra cellular proteins
- Single layer AcroPrep 24-well filter plate contains 0,65/0,2 µm Supor EKV membrane and is designed for applications where a sterile filtrate is required

The AcroPrep cell clarification and sterile filtration plate for protein purification workflows saves time and simplifies workflows by both clarifying and 0,2 µm sterile filtering in a single device and workflow step. With either a vacuum manifold or centrifuge, high density cell cultures (such as CHO or HEK) can be processed resulting in the capture of cells, cell debris and other biological aggregates in the filter media. The plate's top layer features Pall's Seitz® depth media and efficiently captures whole cells and cell debris. The lower Supor® EKV layer provides an efficient sterile filtration layer. The combination effortlessly recovers proteins from whole cell cultures of up to 25M+ cells/ml with varying viabilities. Combining the clarification and sterilisation step eliminates the need to harvest the cells in a centrifugation step, saving additional time.

The AcroPrep 0,2 µm Supor EKV filtration plate for sterile filtration workflows is well suited for high volume (up to 7 ml) plate based sterile filtration needs such as media, reagent, serum or proteins. Compatible with either a vacuum manifold or centrifuge, the 24-well Supor EKV plate features a dual-layer configuration, 0,65 µm membrane integrated with a highly asymmetric 0,2 µm membrane for fast, efficient, and sterilising grade filtration.

Description	Well volume (ml)	Pk	Cat. No.
AcroPrep cell clarification and sterile filtration plate for protein purification workflows			
AcroPrep 24 Clarify and sterile filter plate, Depth + Supor EKV filter media, 0,65/0,2 µm	7	2	738-0220
AcroPrep 24 Clarify and sterile filter plate, Depth + Supor EKV filter media, 0,65/0,2 µm	7	8	738-0219
AcroPrep 0,2 µm Supor EKV filtration plate for sterile filtration workflows			
AcroPrep 24 sterile filter plate, Supor EKV filter media, 0,2 µm	7	2	738-0222
AcroPrep 24 sterile filter plate, Supor EKV filter media, 0,2 µm	7	8	738-0221



SEROLOGICAL PIPETTES, STANDARD LINE

100% high clarity polystyrene, graduated, sterile.

- Graduations are calibrated for accurate dispensing to within ±3%
- Colour coded stripes for quick volume identification
- Non pyrogenic
- Filter plug

Individually wrapped in paper-plastic bags or bulk packed in bags.

Capacity (ml)	Division (ml)	Colour code	Packed	Pk	Cat. No.
Individually wrapped					
1	0,01	Yellow	Individually wrapped, 100 per bag, 10 bags per carton	1.000	612-3707
2	0,01	Green	Individually wrapped, 100 per bag, 8 bags per carton	800	612-3704
5	0,10	Blue	Individually wrapped, 50 per bag, 6 bags per carton	300	612-3702
10	0,10	Red	Individually wrapped, 50 per bag, 4 bags per carton	200	612-3700
25	0,20	Dark red	Individually wrapped, 50 per bag, 4 bags per carton	200	612-3698
50	1,00	Black	Individually wrapped, 25 per bag, 4 bags per carton	100	612-3696
Bulk packed					
1	0,01	Yellow	25 per bag, 40 bags per carton	1.000	612-3705
2	0,01	Green	25 per bag, 28 bags per carton	700	612-3703
5	0,10	Blue	50 per bag, 10 bags per carton	500	612-3701
10	0,10	Red	25 per bag, 14 bags per carton	350	612-3699
25	0,20	Dark red	25 per bag, 14 bags per carton	350	612-3697
50	1,00	Black	25 per bag, 10 bags per carton	250	612-3695



SEROLOGICAL PIPETTES, PREMIUM LINE

PS, transparent, graduated, non sterile or sterile. These disposable pipettes for liquid transfers are made of GPPS (general polystyrene), in compliance with USP Class VI.

- DNase-/RNase-free, non pyrogenic, non cytotoxic, non haemolytic
- Meet the requirement of BST/TSE; latex-free
- Graduations are calibrated for accurate dispensing to within $\pm 2\%$
- Pipettes are colour coded according to their volume
- Sterile pipettes: Sterilised by irradiation
- Printed with a batch number for traceability

Manufactured in a Class 100 000 cleanroom environment. Manufactured under EN ISO 13485:2003 and ISO 9001:2008 quality management systems.

*stretched

**short form

***wide tip

Sterile pipettes are available either individually packed in peel-to-open wrap or plastic-plastic wrap or plastic packed in vacuum PE bag with zip lock (10/25/50 pipettes/bag). Non sterile pipettes are vacuum bulk packed in PE bags.

Capacity (ml)	Division (ml)	Sterile	Length (mm)	Colour code	Packed	Pk	Cat. No.
Sterile, individually packed in peel-to-open wraps plastic/paper							
1*	0,01	+	268	Yellow	Individually	500	612-5504
2*	0,01	+	272	Green	Individually	500	612-5507
5	0,1	+	234**	Blue	Individually	400	612-5523
5*	0,1	+	341	Blue	Individually	400	612-5826
10	0,2	+	234**	Orange	Individually	150	612-5827
10*	0,1	+	303	Orange	Individually	400	612-5541
25	0,5	+	234**	Red	Individually	100	612-5828
25	0,2	+	308	Red	Individually	150	612-5544
50	0,5	+	346	Purple	Individually	100	612-5546
100	1	+	346	Pink	Individually	50	612-5547
Sterile, 10/25 or 50 pipettes per PE bag with zip lock							
1*	0,01	+	268	Yellow	25/bag	1.000	612-5505
2*	0,01	+	272	Green	25/bag	1.000	612-5521
5	0,1	+	234**	Blue	25/bag	500	612-5539
10*	0,1	+	303	Orange	25/bag	400	612-5542
25	0,2	+	308	Red	10/bag	150	612-5545
100	1	+	346	Pink	10/bag	60	612-5548
Non sterile, bulk packed in PE bags							
1*	0,01	-	268	Yellow	Bulk	2.000	612-5506
2*	0,01	-	272	Green	Bulk	1.000	612-5522
5	0,1	-	234**	Blue	Bulk	500	612-5540
10*	0,1	-	303	Orange	Bulk	400	612-5543



Serological pipette, green strip

SEROLOGICAL PIPETTES, TRIPLE BAGGED

The pipettes are individually packed in plastic/plastic and then put in double bags.

- Polyolefin filter
- Latex, DNase, RNase free, non pyrogenic, non cytotoxic
- Sterility Assurance Level (SAL) of 10^{-6}
- Dispenser box: Easy opening

Colour coding for easy identification.

Manufactured in a class 100 000 room environment. Meets BSE/TSE requirement. GPPS compliant USP Class VI.

Capacity (ml)	Division (ml)	Colour code	Pk	Cat. No.
1	0,01	Yellow	500	612-5890
2	0,01	Green	500	612-5891
5	0,1	Blue	400	612-5892
10	0,1	Orange	400	612-5893
25	0,1	Red	150	612-5894
50	0,1	Purple	100	612-5895
100	1	Pink	50	612-5896



Aspirating pipettes

ASPIRATING PIPETTES

PS pipettes, non plugged, non graduated, disposable, sterile.

- Use at -20 to 50 °C
- Sterilized by gamma irradiation SAL 10⁻⁶ (ISO11137)
- Shelf life of 4 years after month of production
- Free of detectable DNase and RNase
- Non pyrogenic, non cytotoxic

For aseptically aspirating liquid by using vacuum suction.

Products are manufactured under the ISO 13485 standard. Meet the requirements of BSE/TSE.

Capacity (ml)	Pk	Cat. No.
1	200	612-5883
2	200	612-5884
5	200	612-5885
10	200	612-5886
25	200	612-5887



PIPETTE CONTROLLER, POWERPETTE PRO

Pipette controller for glass and plastic pipettes from 1 to 100 ml.

- Lightweight UV resistant body (180 g) and nose cones
- Fills a 25 ml pipette in under 3 seconds on its fastest setting
- Autoclavable silicone pipette holder
- Replaceable hydrophobic membrane filter protects the unit against liquid influx and samples against contamination
- Environmentally friendly, rechargeable NiMH battery allows continuous usage for 4 hours; low battery light; rechargeable during use

The Powerpette Pro pipette controller delivers efficient performance with a powerful but quiet motor to speed up large volume pipetting. The mode selection switch enables selection of high or low modes, both allowing variable aspirate and dispense speeds (with blow out). In any mode setting the speed of suction and dispensing is controlled through the concave finger triggers, designed to provide a comfortable and positive grip requiring minimum effort. An additional gravity dispense mode is designed for use with 'To Deliver' (TD) pipettes. The Powerpette Pro is now supplied with additional coloured nose cones to allow laboratory, application or user colour coding to minimise the risk of cross-contamination.

Supplied with charger, two spare hydrophobic filters (1x0,45 µm, 1x0,2 µm), bench stand/wall bracket and a coloured nose cone set.

Description	Pk	Cat. No.
Pipette controller Powerpette Pro, universal charger	1	612-4552

Description	Pk	Cat. No.
Accessories		
Pack of 3 coloured nose cones (red, blue and pink)	1	612-4555
Replacement filter set 0,45 µm	5	612-3678
Replacement filter set 0,2 µm	5	612-3681
Replacement silicone pipette holder	1	612-3679



PIPETTE FILLER, SAFETYPETTE

Pipette filler for glass and plastic pipettes from 1 to 100 ml.

- Replaceable hydrophobic membrane filter protects the instrument from liquid penetration
- Separate buttons for aspirating/dispensing and discharging
- Silicone adapter for leakproof positioning of each pipette

The Safetypette pipette filler facilitates the pipetting of a wide range of liquids. The practical arrangement of the controls makes work easier giving maximum safety during serial pipetting.

Supplied with three separate nose cones in three different colours.

Description	Pk	Cat. No.
Pipette filler Safetypette	1	612-4548

Description	Pk	Cat. No.
Accessories		
Replacement filter set 0,45 µm	5	612-3678
Replacement filter set 0,2 µm	5	612-3681
Replacement silicone pipette holder	1	612-3679



SINGLE-CHANNEL PIPETTES, MECHANICAL, VARIABLE VOLUME, ULTRA-HIGH PERFORMANCE (UHP)

VWR Ultra-High Performance pipettes offer superior accuracy and precision, with a proven ergonomic design which are both lightweight and durable.

- Very low plunger forces
- Universal tip capability
- Automatic locking volume adjustment wheel
- Levered tip ejection and colour coded for volume identification
- Easy in-house calibration and maintenance
- Fully autoclavable

Capacity (µl)	Accuracy (%)	Imprecision (%)	Pk	Cat. No.
0,1 - 2	±12,0 - ±1,5	<6,0 - <0,7	1	613-1488
0,5 - 10	±4,0 - ±0,5	<2,8 - <0,4	1	613-1489
2 - 20	±3,0 - ±0,8	<1,5 - <0,3	1	613-1490
5 - 50	±3,0 - ±0,8	<2,0 - <0,4	1	613-1628
10 - 100	±1,6 - ±0,8	<1,5 - <0,3	1	613-1491
20 - 200	±1,2 - ±0,6	<0,8 - <0,2	1	613-1492
100 - 1000	±0,9 - ±0,6	<0,6 - <0,2	1	613-1493

Description	Pk	Cat. No.
Starter kits for UHP pipettes		
5 Pack incl. 5 pipettes (0,1 - 2 / 0,5 - 10 / 2 - 20 / 20 - 200 / 100 - 1000 µl), 3 racks of tips (10, 200 and 1000 µl) and 8 pipette multiple stand	1	613-5464
4 Pack incl. 4 pipettes (0,5 - 10 / 2 - 20 / 20 - 200 / 100 - 1000 µl), 3 racks of tips (10, 200 and 1000 µl) and 8 pipette multiple stand	1	613-5463
3 Pack incl. 3 pipettes (0,5 - 10 / 10 - 100 / 100 - 1000 µl), 3 racks of tips (10, 200 and 1000 µl) and 8 pipette multiple stand	1	613-5468
Accessories		
Linear stand for 4 pipettes	1	613-5471
Starter kits for UHP pipettes		
3 Pack incl. 3 pipettes (2 - 20 / 20 - 200 / 100 - 1000 µl), 2 racks of tips (200 and 1000 µl) and 8 pipette multiple stand	1	613-5467
Accessories		
Multiple stand for up to 8 pipettes	1	613-5472
Stand for 4 UHP pipettes	1	613-1589

PIPETTE TIPS

These tips are made of high quality, 100% pure, virgin medical grade PP. Made in the highest quality moulds, these tips can be used whenever the work demands a higher standard.

- Sustainable design based on virgin resins
- A wide seal ensures tips will seal easily and consistently without leaking
- Guaranteed free of detectable DNA, DNase/RNase, endotoxins and heavy metals
- Tested for endotoxin (pyrogen) contamination
- Resins are pre-tested for metal contamination
- Graduated tips only: Graduations allow a visual check of pipetting accuracy
- Certificates are on file by lot number for all test results

Items (pipette tips and boxes) can be autoclaved at 122 °C for a maximum of 20 minutes at 15 psi.

Macro tips (1 - 5 and 5 - 10 ml) are supplied in composite racks (fibre carton). These racks are not autoclavable. For sterile tips, please order the sterilised version.

Please note: A steam cycle should be used. Always air dry these items. Do not use a dry cycle or glassware cycle as deformation can occur to plastics that are heated for extended periods.

Tip styles:

Bevel Point: Pipette tips that feature bevelled points are designed to retain less fluid and are a good choice for a multitude of procedures.

UltraFine: Pipette tips with UltraFine™ point feature a thin flexible section at the end that is non bevelled and very flexible. This helps you dispense the last tiny amount of sample from the tip.

FlexTop: These ultimate tips feature a uniquely thin and flexible top that conforms to the pipette barrel unlike any other tips. This design allows them to mount and eject from most pipettes with forces that help eliminate the potential for repetitive strain injuries.

Wide orifice: Extra wide opening allows you to pipette macrophages or sticky DNA materials. Bevelled end helps eliminate carry-over from viscous solutions.

Environmentally preferable Low Manufacturing Impact, Sustainable Packaging



Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
0,1 - 10 µl						
UltraFine	0,1 - 10	-	31,42	Bulk	1.000	613-0364
UltraFine	0,1 - 10	-	31,42	12 racks, 96 each	1.152	613-0334
UltraFine	0,1 - 10	+	31,42	12 racks, 96 each	1.152	613-0335
UltraFine	0,1 - 10	-	31,42	6 refills, 96 each (Next Generation)	576	613-2104
UltraFine	0,1 - 10	-	31,42	13 refills, 96 each (Next Generation)	1.248	613-1646
UltraFine, extra long	0,1 - 10	-	47,60	10 racks, 96 each	960	613-2136
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	Bulk	1.000	613-0259
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	10 racks, 96 each	960	613-0260
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	+	38,10	10 racks, 96 each	960	613-0261
Extended length, with Tubegard™ ring (pipette protection)	0,1 - 10	-	38,10	14 refills, 96 each (Next Generation)	1.344	613-0735
1 - 200 µl						
UltraFine, FlexTop	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0725
Bevel Point	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0740
Bevel Point (yellow)	1 - 200	-	49,66	Bulk	1.000	613-0239
Bevel Point (yellow)	1 - 200	-	49,66	10 racks, 96 each	960	613-0241
Bevel Point (yellow)	1 - 200	+	49,66	10 racks, 96 each	960	613-0242
Bevel Point (yellow)	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0732
Bevel Point, graduated	1 - 200	-	49,66	Bulk	1.000	613-0298
Bevel Point, graduated	1 - 200	-	49,66	Bulk	10.000	525-0144
Bevel Point, graduated	1 - 200	-	49,66	10 racks, 96 each	960	613-0299
Bevel Point, graduated	1 - 200	+	49,66	10 racks, 96 each	960	613-0300
Bevel Point, graduated	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0742
Bevel Point, wide orifice	1 - 200	-	49,66	10 refills, 96 each (Next Generation)	960	613-0731

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Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
UltraFine, FlexTop	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2108
Bevel Point (yellow)	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2106
Bevel Point, graduated	1 - 200	-	49,66	5 refills, 96 each (Next Generation)	480	613-2107
1 - 250 µl						
UltraFine	1 - 250	-	52,07	10 refills, 96 each (Next Generation)	960	613-0744
1 - 300 µl						
UltraFine, FlexTop	1 - 300	-	71,12	Bulk	1.000	613-0331
UltraFine, FlexTop	1 - 300	-	71,12	6 racks, 96 each	576	613-0332
UltraFine, FlexTop	1 - 300	+	71,12	6 racks, 96 each	576	613-0333
UltraFine, FlexTop	1 - 300	-	71,12	6 refills, 96 each (Next Generation)	576	613-0723
100 - 1000 µl						
UltraFine (blue)	100 - 1000	-	75,95	Bulk	1.000	613-0340
UltraFine (blue)	100 - 1000	-	75,95	6 racks, 96 each	576	613-0341
UltraFine (blue)	100 - 1000	+	75,95	6 racks, 96 each	576	613-0342
UltraFine, graduated	100 - 1000	-	75,95	Bulk	1.000	613-0343
UltraFine, graduated	100 - 1000	-	75,95	6 racks, 96 each	576	613-0344
100 - 1250 µl						
UltraFine, FlexTop, extended	100 - 1250	-	88,90	Bulk	1.000	613-0272
UltraFine, FlexTop, extended	100 - 1250	-	88,90	5 refills, 96 each (Next Generation)	480	613-0738
Wide orifice	100 - 1250	-	88,90	5 refills, 96 each (Next Generation)	480	613-0737
1000 - 5000 µl						
Standard	1000 - 5000	-	144,27	49/rack	49	613-2147
Standard	1000 - 5000	+	144,27	49/rack	49	613-2148
Graduated (Eppendorf/Sartorius)	1000 - 5000	-	123,06	Bulk	250	613-0339
Graduated (Eppendorf/Sartorius)	1000 - 5000	-	123,06	49/rack	49	613-2145
Graduated (Eppendorf/Sartorius)	1000 - 5000	+	123,06	49/rack	49	613-2146
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	-	123,06	Bulk	250	613-0338
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	-	123,06	49/rack	49	613-2143
Graduated (Gilson® Classic/Rainin® Classic)	1000 - 5000	+	123,06	49/rack	49	613-2144
5000 - 10000 µl						
Standard	5000 - 10000	-	155,70	Bulk	250	613-0831
Standard	5000 - 10000	-	155,70	36/rack	36	613-2149
Standard	5000 - 10000	+	155,70	36/rack	36	613-2150



732-0519



Rack

FILTER TIPS

All tips are made of high quality, 100% pure, virgin medical grade PP. Made in the highest quality moulds, these tips can be used whenever the work demands a higher standard. All products are tested for endotoxin (pyrogen) contamination and certified to USP results. Resins are pre-tested for metal contamination. Certificates are on file by lot number for all test results.

- A wider seal ensures that tips will seal easily and consistently without leaking, on old as well as new pipettes
- Guaranteed free of detectable human DNA, DNase/RNase, ATP, endotoxins and heavy metals

Environmentally preferable Low Manufacturing Impact, Sustainable Packaging

Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Racked, sterile						
UltraFine, extended	0,1 - 10	+	38,10	10 racks, 96 each	960	732-0543
UltraFine, graduated	0,1 - 10	+	31,42	12 racks, 96 each	1.152	732-0516
Bevel Point	1 - 40	+	49,66	10 racks, 96 each	960	732-0528
Standard	1 - 100	+	49,66	10 racks, 96 each	960	732-1103
Bevel Point, graduated	1 - 100	+	49,66	10 racks, 96 each	960	732-1102
UltraFine	1 - 200	+	52,07	10 racks, 96 each	960	732-0541
UltraFine, extended	1 - 200	+	83,82	6 racks, 96 each	576	732-0610
UltraFine, extended	1 - 300	+	71,12	6 racks, 96 each	576	732-0611
UltraFine	100 - 1000	+	88,90	6 racks, 96 each	576	732-0534



613-5471

STANDS FOR VWR® PIPETTES

White pipette stands for single- and multi-channel pipettes.

Stand 613-5471: Compatible with all single- and multi-channel pipettes (EHP, UHP and Standard Line)

Stand 613-5472: Compatible with all single- and multi-channel pipettes (EHP, UHP and Standard Line)

Stand 613-5473: Compatible only with single-channel pipettes, volumes 2 to 1000 µl (EHP and Standard Line)



613-5472

613-5473

Description	Pk	Cat. No.
Linear stand for 4 pipettes	1	613-5471
Multiple stand for up to 8 pipettes	1	613-5472



FILTER TIPS, LOW RETENTION

Low retention tips made of transparent PP resins offering unsurpassed fluid retention performance and proven aerosol blocking with endotoxin-free, 10 µm porous, hydrophobic filter. Ideal for PCR and DNA manipulation.

- Sustainable design based on virgin resins
- With PE filter, sterile
- Up to 10 times less fluid retention than standard tips
- Sample can be completely recovered without cutting into tip
- Lot-certified purity (free from protease, RNase/DNase, human DNA and endotoxin, non pyrogenic)
- Tips and racks are autoclavable to 121 °C for a maximum of 15 minutes (dry cycle is not recommended)

Environmentally preferable Low Manufacturing Impact, Sustainable Packaging

Tip style	Volume (µl)	Sterile	Length (mm)	Packed	Pk	Cat. No.
Low retention, extended	10	+	38,10	10 racks, 96 each	960	732-1487
Low retention	10	+	31,42	12 racks, 96 each	1.152	732-1486
Low retention	20	+	49,66	10 racks, 96 each	960	732-1488
Low retention	100	+	49,66	10 racks, 96 each	960	732-2385
Low retention	200	+	52,07	10 racks, 96 each	960	732-1489
Low retention	300	+	52,07	10 racks, 96 each	960	732-1490
Low retention	1000	+	88,90	6 racks, 96 each	576	732-1491

Avantor Services

Accredited pipette calibration and repair service from Avantor Services

Complete calibration and servicing solutions for single- and multi-channel (electronic) pipettes and steppers, under ISO 17025 accreditation. In-house or on-site.



Ask for a quote

CENTRIFUGE TUBES, ULTRA-HIGH PERFORMANCE, VWR®

These leakproof, conical bottom centrifuge tubes prevent breakage and leakage during high speed centrifugation, and are made of non cytotoxic, medical grade resin that allows users to easily see sample volume and colour.

- Easy to read black graduations in $\pm 2\%$ increments
- Contains a large, white frosted writing area
- RNase-, DNase- and endotoxin-free
- Autoclavable at 121 °C and freezable to -80 °C
- Sterile tubes are sterilised by irradiation

The HDPE caps are available in two styles. Flat caps are leak resistant and feature a moulded-in elastomeric sealing ring that keeps the sealed tubes completely secure. These caps are ideal for vortexing chemicals and long rocker incubations. Plug caps feature a deep sealing area offering a secure seal for extended storage.

Manufactured in a Class 100000 room environment. Manufactured under ISO 13485:2016 and ISO 9001:2015 quality management system. Meet the requirements of RoHS.

Bulk packed items are supplied with tubes, caps are packed separately.

Caps must be loosely attached to tubes when autoclaving.



Centrifuge tubes

Capacity (ml)	Closure type	Type	Material	Packed	Pk	Cat. No.
Centrifuge tubes, 15 ml, 17000xg, flat cap with sealing ring						
15	Flat cap	Non sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1081
15	Flat cap	Non sterile	PP	50/bag, 10 bags/case	500	525-1082
15	Flat cap	Non sterile	PP	Bulk (tubes and caps in separate bags)	500	525-1083
15	Flat cap	Sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1084
15	Flat cap	Sterile	PP	50/bag, 10 bags/case	500	525-1085
Centrifuge tubes, 15 ml, 20000xg, flat cap with sealing ring						
15	Flat cap	Sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1091
15	Flat cap	Sterile	PP	50/bag, 10 bags/case	500	525-1092
Centrifuge tubes, 15 ml, 17000xg, plug cap						
15	Plug type cap	Non sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1086
15	Plug type cap	Non sterile	PP	50/bag, 10 bags/case	500	525-1087
15	Plug type cap	Non sterile	PP	Bulk	500	525-1088
15	Plug type cap	Sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1089
15	Plug type cap	Sterile	PP	50/bag, 10 bags/case	500	525-1090
Centrifuge tubes, 50 ml, 20000xg, plug cap						
50	Plug type cap	Non sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1101
50	Plug type cap	Non sterile	PP	50/bag, 10 bags/case	500	525-1103
50	Plug type cap	Non sterile	PP	Bulk	500	525-1105
50	Plug type cap	Sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1111
50	Plug type cap	Sterile	PP	50/bag, 10 bags/case	500	525-1113
Centrifuge tubes, 50 ml, 20000xg, flat cap with sealing ring						
50	Flat cap	Non sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1098
50	Flat cap	Non sterile	PP	50/bag, 10 bags/case	500	525-1099
50	Flat cap	Non sterile	PP	Bulk	500	525-1100
50	Flat cap	Sterile	PP	25/rack, 2 racks/pack, 10 packs/case	500	525-1107
50	Flat cap	Sterile	PP	50/bag, 10 bags/case	500	525-1109
Centrifuge tubes, 50 ml, 10000xg, freestanding, flat cap with sealing ring						
50	Flat cap	Non sterile	PP	Bulk	500	525-1096
50	Flat cap	Sterile	PP	50/bag, 10 bags/case	500	525-1097
Centrifuge tubes, 15 ml, 3000xg, PS, with moulded graduations and flat caps						
15	Flat cap	Non sterile	PS	Bulk	1,000	525-1095
15	Flat cap	Sterile	PS	25/rack, 2 racks/pack, 10 packs/case	500	525-1093
15	Flat cap	Sterile	PS	50/bag, 10 bags/case	500	525-1094



Centrifuge tubes

CENTRIFUGE TUBES, HIGH PERFORMANCE, FLAT OR PLUG CAP, PP, VWR®

These leakproof disposable conical bottom and free-standing tubes feature black graduations and smooth inner walls for easy filling and sample preparation.

- Easy to read black graduations in $\pm 2\%$ increments
- White printed writing area for permanent coding
- RNase-, DNase- and endotoxin-free
- Autoclavable at 121 °C and freezable to -80 °C
- Can be centrifuged up to 12500 $\times g$
- Sterile tubes are sterilised by irradiation

Caps are available in two styles: Flat, with a smooth surface for additional labelling options, and plug style for a secure seal when using shakers and horizontal incubators. All caps are made of green high density polyethylene. Racks are available separately.

Rack-packed tubes are packed in freezable, recyclable, autoclavable, washable plastic racks. The racks are marked with numbers (1 to 25) for identification, they are angular at one end to stack up easily. The interlocking design of each polypropylene rack makes them ideal for benchtop organisation.

Manufactured in a Class 100000 room environment.
Manufactured under ISO 13485:2016 and ISO 9001:2015 quality management system. Meet the requirements of RoHS.

Bulk packed items are supplied with tubes, caps are packed separately.

Capacity (ml)	Closure type	Type	Packed	Pk	Cat. No.
Conical bottom centrifuge tubes with flat cap					
15	Flat cap	Non sterile	Bulk	500	525-1066
15	Flat cap	Sterile	50/bag, 10 bags/case	500	525-1068
50	Flat cap	Non sterile	Bulk	500	525-1072
50	Flat cap	Sterile	50/bag, 10 bags/case	500	525-1075
Conical bottom centrifuge tubes with plug cap					
15	Plug type cap	Non sterile	Bulk	500	525-1067
15	Plug type cap	Sterile	50/bag, 10 bags/case	500	525-1070
50	Plug type cap	Non sterile	Bulk	500	525-1073
50	Plug type cap	Sterile	50/bag, 10 bags/case	500	525-1077
Free-standing centrifuge tubes with plug cap					
50	Plug type cap	Non sterile	50/bag, 10 bags/case	500	525-1079
50	Plug type cap	Non sterile	Bulk	500	525-1080
50	Plug type cap	Sterile	50/bag, 10 bags/case	500	525-1078



Centrifuge tubes

CENTRIFUGE TUBES, ULTRA-HIGH PERFORMANCE, LIGHT-SENSITIVE, VWR®

These leakproof centrifuge tubes are manufactured from dark amber PP, and provide protection for light-sensitive samples by blocking UV lighting.

- Easy to read black graduations in $\pm 2\%$ increments
- Contains a large, white frosted writing area
- RNase-, DNase- and endotoxin-free
- Autoclavable at 121 °C and freezable to -80 °C
- Can be centrifuged up to 12500 $\times g$
- Sterile tubes are sterilised by irradiation

These sterile tubes feature a printed labelling area for quick and convenient sample identification. Green high density polyethylene caps are included. All tubes and caps are autoclavable.

Manufactured in a Class 100000 room environment.
Manufactured under ISO 13485:2016 and ISO 9001:2015 quality management system. Meet the requirements of RoHS.

Bulk packed items are supplied with tubes, caps are packed separately.

Capacity (ml)	Closure type	Version	Colour	Packed	Pk	Cat. No.
15	Plug type cap	Non sterile	Amber	Bulk	500	525-1115
15	Plug type cap	Sterile	Amber	25/rack, 2 racks/pack, 10 packs/case	500	525-1116
15	Plug type cap	Sterile	Amber	50/bag, 10 bags/case	500	525-1117
50	Plug type cap	Non sterile	Amber	Bulk	500	525-1118
50	Plug type cap	Sterile	Amber	25/rack, 2 racks/pack, 10 packs/case	500	525-1119
50	Plug type cap	Sterile	Amber	50/bag, 10 bags/case	500	525-1120



ULTRA-LOW TEMPERATURE FREEZERS, UPRIGHT MODELS, -86 °C

These freezers are designed and constructed for long-term performance and are ideal for applications where temperature control is critical. Modern design includes an easy to grasp handle for one-handed operation. Dual wheel, locking swivel castors allow mobility as well as secure positioning. Industrial-grade cabinets are constructed of high quality, heavy gauge, cold-rolled steel. The powder-coated finish is rust- and chip-resistant. Upright freezers feature a triple-point silicone door gasket, three stainless steel shelves that are fully adjustable (bottom of unit acts as fourth shelf), lockable castors, and a vacuum-relief port for easy re-entry following door closings.

- Dual compressors
- Microprocessor temperature control system
- Advanced monitor/alarm system
- Automatic voltage compensator
- Cascade refrigeration system
- Non CFC, non HFCF, non flammable refrigerants
- The microprocessor temperature control system maintains constant freezer temperature, along with a sophisticated microprocessor monitor/alarm system to keep the operator informed of over-/under-temperature conditions, power failures, low battery and door ajar scenarios. LED indicates actual chamber temperature
- Air-cooled, hermetically-sealed dual compressors work in unison and cycle on demand of the microprocessor temperature controller
- To reduce cold air loss, units feature four inner compartment doors
- Acoustic mufflers and sound-absorbing foam in the freezer base reduce the noise level in the lab

Temperature: -50 to -86 °C

Cat. No.	471-1202
Alarm	Audible and visual
Shelves/drawers	2 shelves
Weight	390 kg

Type	Pk	Cat. No.
ULT upright freezer rack packages and chart recorder		
Ultra-low temperature upright freezer rack package with 2 shelves of sliding drawer racks and boxes plus chart recorder (651 l)	1	471-1202



471-1139

ULTRA-LOW TEMPERATURE CHEST FREEZERS, -86 °C

These chest freezers have been designed for sample protection and ease of use.

- Convenient information centre control and monitoring system
- Polystyrene interior sublids reduce cold air loss and improve temperature recovery after door openings
- Insulation: High density HFC-blown PU foam (127 mm)
- 2" locking castors for easy to roll installation
- Refrigerant type: R 404-A
- RS485 interface
- Optional temperature chart recorder (7 day) and optional data logger can be connected

Temperature range: -50 to -86 °C

Regulatory certifications: UL, cUL, CE

Model	471-1137	471-1138	471-1139
Cat. No.			
Display	Digital		
Defrost	Manual		
Alarm	Audible and visual		
Electrical	230 V, 50 Hz, 1 phase, 3450 W		
Noise level	55 dB (A)		57 dB (A)
Door type	1 door		
Door lock	Yes		
Access ports	1		
Material	Exterior: Cold-rolled steel, powder coated Interior: Stainless steel		
Specifications	Storage capacity for 2" boxes: 63 Storage capacity for 3" boxes: 9 Storage capacity for vials: 45	Storage capacity for 2" boxes: 252 Storage capacity for 3" boxes: 21 Storage capacity for vials: 168	Storage capacity for 2" boxes: 396 Storage capacity for 3" boxes: 33 Storage capacity for vials: 264
Weight	159 kg	338 kg	386 kg

Type	Pk	Cat. No.
ULT chest freezer, 85 l	1	471-1137
ULT chest freezer, 359 l	1	471-1138
ULT chest freezer, 566 l	1	471-1139



CRYOGENIC VIALS

Designed for the storage of biological material, human or animal cells, at temperatures as low as $-196\text{ }^{\circ}\text{C}$ (should only be used in the gas phase of liquid nitrogen).

- Graduations and white marking area
- Sterilised by gamma radiation
- Compatible with most storage systems

Closures and tubes are made of PP, and both have the same coefficient of expansion, further enhancing the leakproof qualities of these vials at various temperatures. Round bottom vials can be centrifuged up to $17000\times g$.

Please note that 479-1237 has a PE screw cap and there are no cap inserts available for this model.

Certified RNase-, DNase-, pyrogen- and DNA-free.

Packed in unique tamper-proof, resealable, safety-lock bags of 100.

Capacity (ml)	Base	Ø ext. x H (mm)	Pk	Cat. No.
With external thread and lip seal				
1,20	Free-standing	12,5x41	1.000	479-1219
2,00	Round bottom	12,5x46	1.000	479-1235
2,00	Free-standing	12,5x48	1.000	479-1220
3,00	Free-standing	12,5x71	1.000	479-1775
4,00	Free-standing	12,5x77	1.000	479-1776
5,00	Round bottom	12,5x91	1.000	479-1777
5,00	Free-standing	12,5x91	1.000	479-1236
With internal thread and silicone O-ring				
1,20	Free-standing	12,5x41	1.000	479-1261
2,00	Round bottom	12,5x48	1.000	479-1263
2,00	Free-standing	12,5x49	1.000	479-1262
4,00	Round bottom	12,5x70	1.000	479-1265
4,00	Free-standing	12,5x72	1.000	479-1264
5,00	Round bottom	12,5x91	1.000	479-1266
5,00	Free-standing	12,5x91	1.000	479-1773
With external thread, lip and silicone washer seal				
1,20	Free-standing	12,5x43	1.000	479-1207
2,00	Round bottom	12,5x48	1.000	479-1209
2,00	Free-standing	12,5x49	1.000	479-1208
3,00	Free-standing	12,5x72	1.000	479-1210
4,00	Free-standing	12,5x76	1.000	479-1217
5,00	Round bottom	12,5x91	1.000	479-1774
5,00	Free-standing	12,5x91	1.000	479-1218
With internal thread and silicone washer seal				
1,20	Free-standing	12,5x41	1.000	479-1254
2,00	Round bottom	12,5x48	1.000	479-1258
2,00	Free-standing	12,5x49	1.000	479-1256

Capacity (ml)	Base	Ø ext. x H (mm)	Pk	Cat. No.
4,00	Round bottom	12,5x70	1.000	479-1255
4,00	Free-standing	12,5x72	1.000	479-1260
5,00	Round bottom	12,5x90	1.000	479-1259
5,00	Free-standing	12,5x92	1.000	479-1257
With external thread and silicone washer seal				
1,20	Free-standing	12,5x43	1.000	479-1238
2,00	Round bottom	12,5x48	1.000	479-1240
2,00	Free-standing	12,5x49	1.000	479-1239
3,00	Free-standing	12,5x72	1.000	479-1251
4,00	Free-standing	12,5x76	1.000	479-1252
5,00	Round bottom	12,5x91	1.000	479-1778
5,00	Free-standing	12,5x91	1.000	479-1253
10,00	Free-standing	17,0x84	500	479-1237

Colour	Pk	Cat. No.
Coloured cap inserts for cryogenic vials		
Amber	500	479-0809
Blue	500	479-0814
Green	500	479-0812
Grey	500	479-0808
Purple	500	479-0807
Orange	500	479-0806
Pink	500	479-0804
Red	500	479-0813
Violet	500	479-0805
White	500	479-0815
Yellow	500	479-0811
Assorted	500	479-0810



478-0236

CRYOBXES

Polycarbonate.

- Can be used from -190 to $+121\text{ }^{\circ}\text{C}$.

VWR freezer boxes can be used with most manufacturer's upright and chest freezer racks in general purpose and ultra-low mechanical freezers.

Compartments	Height (mm)	Pk	Cat. No.
Cryoboxes, PC, with dividers			
10x10	50	1	478-0236
5x5	50	1	478-0238
Dividers, cardboard			
5x5	-	1	478-0242



CRYOBXES FOR CENTRIFUGE TUBES

PP, autoclavable.

- Labelled zone and numerical grid references
- Clear cover
- Autoclavable (121 °C), temperature resistant to -90 °C
- Sustainable design based on virgin resins

For long-term storage of samples.

Environmentally preferable Low Manufacturing Impact, Sustainable Packaging

Description	For tubes (ml)	WxDxH ext. (mm)	Pk	Cat. No.
For 16 tubes with lid	50	138x138x126	2	479-0079



CRYOBXES, FOR LIGHT-SENSITIVE SPECIMENS

PP, black.

- Reinforced seal, triple-hinges and locking clasp keeps samples secure while the box is closed
- Each box features an alphanumeric grid on the exterior and interior and stacking rings
- Matt surface suitable for printing and labelling

Ideal for light-sensitive specimens, this all-black storage box is suitable for use with 0,5/1,5/2,0 ml microcentrifuge tubes, as well as most other brands of cryogenic vials. These boxes stand a few millimetres taller than other available types of storage boxes and can accommodate several sizes of cryogenic vials, or tubes of similar diameters.

Compartments	For (ml)	Colour	WxDxH ext. (mm)	Pk	Cat. No.
100	Microcentrifuge tubes 0,5/1,0 and 2,0	Black	140x140x60	1	211-0255



CRYOBXES, WITHOUT OR WITH DIVIDERS

Made of white cardboard.

- Inexpensive to buy, inexpensive to ship, space saving in the laboratory
- Available in the most sold size with a height of 51 mm
- Square, size of bottom 129x129 mm, size of top 134x134 mm
- Fits into all storage rack systems

Consists of a lid and a base which are delivered flat. Simply by following the instructions on the lid, 1-2-3 and you have a stable, high quality cryobox.

Compartments	Type	Pk	Cat. No.
-	Without divider	100	479-1386
49 (7x7)	With divider	100	479-1385
64 (8x8)	With divider	100	479-1384
81 (9x9)	With divider	100	479-1383
100 (10x10)	With divider	100	479-1382



CRYOBXES

Made of extra strong polycarbonate.

- Writing surface has numbered squares for easy sample identification
- Stackable
- Vials readily visible through transparent cover
- Cover and base are keyed to prevent misalignment
- Drain holes under base
- Writing surface for identifying base and/or cover
- Numeric identification of each vial
- Air vents minimise condensation

Transparent cover allows the user to see the contents of the box, and is keyed to the base to prevent misalignment. Printed with a series of squares (numbered from 1 to 25, 1 to 42, 1 to 81, or 1 to 100), surface accepts writing with markers, facilitating inventory control. Can be used from -196 to $+121$ °C.

A unique colour coding system uses coloured plastic grids to separate the cover from the base on the 25-, 42- and 81-place boxes. Those made to accept 100 tubes have a coloured base instead of a grid.

Description	Compartments	For (ml)	WxDxH ext. (mm)	Pk	Cat. No.
White box with blue grid	5x5	Cryotubes 1 - 2	76x76x52	8	479-0470
White box with green grid	5x5	Cryotubes 1 - 2	76x76x52	8	479-0471
White box with red grid	5x5	Cryotubes 1 - 2	76x76x52	8	479-0472
White box with yellow grid	5x5	Cryotubes 1 - 2	76x76x52	8	479-0473
White box with blue grid	9x9	Cryotubes 1 - 2	133x133x52	4	479-0474
White box with green grid	9x9	Cryotubes 1 - 2	133x133x52	4	479-0475
White box with red grid	9x9	Cryotubes 1 - 2	133x133x52	4	479-0476
White box with yellow grid	9x9	Cryotubes 1 - 2	133x133x52	4	479-0477
White box with blue grid	9x9	Cryotubes 3 - 4	133x133x81	3	479-0891
White box with green grid	9x9	Cryotubes 3 - 4	133x133x81	3	479-0892
White box with red grid	9x9	Cryotubes 3 - 4	133x133x81	3	479-0893
White box with yellow grid	9x9	Cryotubes 3 - 4	133x133x81	3	479-0894
White box with blue grid	9x9	Cryotubes 3 - 5	133x133x95	5	479-0482
White box with green grid	9x9	Cryotubes 3 - 5	133x133x95	5	479-0483
White box with red grid	9x9	Cryotubes 3 - 5	133x133x95	5	479-0484
White box with yellow grid	9x9	Cryotubes 3 - 5	133x133x95	5	479-0485
Blue box without grid	10x10	Cryotubes 1 - 2	133x133x52	4	479-0486
Green box without grid	10x10	Cryotubes 1 - 2	133x133x52	4	479-0487
Red box without grid	10x10	Cryotubes 1 - 2	133x133x52	4	479-0488
Yellow box without grid	10x10	Cryotubes 1 - 2	133x133x52	4	479-0489



CRYOBXES, CARDBOARD, 133x133 MM

Cardboard, coated.

- Waterproof coating
- Various combinations possible with different dividers (to be ordered separately)
- Available in different heights and colours

For storage of cryovials at low temperatures.

Freezable to -140 °C.

Compartments	Colour	For tubes	Height (mm)	WxDxH ext. (mm)	Pk	Cat. No.
Cryoboxes 32 mm high						
-	White	-	32	133x133x32	1	479-1407
-	Blue	-	32	133x133x32	1	479-1408
-	Red	-	32	133x133x32	1	479-1409
-	Green	-	32	133x133x32	1	479-1410
-	Yellow	-	32	133x133x32	1	479-1411
Cryoboxes 50 mm high						
-	White	-	50	133x133x50	1	479-1417
-	Blue	-	50	133x133x50	1	479-1418
-	Red	-	50	133x133x50	1	479-1419
-	Green	-	50	133x133x50	1	479-1420
-	Yellow	-	50	133x133x50	1	479-1421
Cryoboxes 75 mm high						
-	White	-	75	133x133x75	1	479-1427
-	Blue	-	75	133x133x75	1	479-1428
-	Red	-	75	133x133x75	1	479-1429
-	Green	-	75	133x133x75	1	479-1430
-	Yellow	-	75	133x133x75	1	479-1431
Cryoboxes 100 mm high						
-	White	-	100	133x133x100	1	479-1387
-	Blue	-	100	133x133x100	1	479-1388
-	Red	-	100	133x133x100	1	479-1389
-	Green	-	100	133x133x100	1	479-1390
-	Yellow	-	100	133x133x100	1	479-1391
Cryoboxes 130 mm high						
-	White	-	130	133x133x130	1	479-1397
-	Blue	-	130	133x133x130	1	479-1398
-	Red	-	130	133x133x130	1	479-1399
-	Green	-	130	133x133x130	1	479-1400
-	Yellow	-	130	133x133x130	1	479-1401
Grid dividers for cryoboxes 32 mm height						
16x16	—	Up to 7,4 mm Ø	25	-	1	479-1490
14x14	—	Up to 8,5 mm Ø	25	-	1	479-1489
13x13	—	Up to 9,2 mm Ø	25	-	1	479-1488
12x12	—	Up to 10,0 mm Ø	25	-	1	479-1487
10x10	—	Up to 12,0 mm Ø	25	-	1	479-1486

Compartments	Colour	For tubes	Height (mm)	WxDxH ext. (mm)	Pk	Cat. No.
9x9	—	Up to 13,3 mm Ø	25	-	1	479-1485
8x8	—	Up to 15,1 mm Ø	25	-	1	479-1484
7x7	—	Up to 17,3 mm Ø	25	-	1	479-1483
Grid dividers for cryoboxes 50 mm height						
16x16	—	Up to 7,4 mm Ø	30	-	1	479-1470
14x14	—	Up to 8,5 mm Ø	30	-	1	479-1469
13x13	—	Up to 9,2 mm Ø	30	-	1	479-1468
12x12	—	Up to 10,0 mm Ø	30	-	1	479-1467
10x10	—	Up to 13,3 mm Ø	30	-	1	479-1466
9x9	—	Up to 13,3 mm Ø	30	-	1	479-1465
8x8	—	Up to 15,1 mm Ø	30	-	1	479-1464
7x7	—	Up to 17,3 mm Ø	30	-	1	479-1463
6x6	—	Up to 20,3 mm Ø	30	-	1	479-1462
5x5	—	Up to 24,3 mm Ø	30	-	1	479-1461
4x4	—	Up to 30,5 mm Ø	30	-	1	479-1460
3x3	—	Up to 41,0 mm Ø	30	-	1	479-1459
Grid dividers for cryoboxes 75 mm height						
12x12	—	Up to 10,0 mm Ø	40	-	1	479-1626
10x10	—	Up to 12,0 mm Ø	40	-	1	479-1625
9x9	—	Up to 13,3 mm Ø	40	-	1	479-1624
8x8	—	Up to 15,1 mm Ø	40	-	1	479-1623
7x7	—	Up to 17,3 mm Ø	40	-	1	479-1622
6x6	—	Up to 20,3 mm Ø	40	-	1	479-1621
5x5	—	Up to 24,3 mm Ø	40	-	1	479-1620
4x4	—	Up to 30,5 mm Ø	40	-	1	479-1619
3x3	—	Up to 41,0 mm Ø	40	-	1	479-1499
Grid dividers for cryoboxes 100/130 mm height						
10x10	—	Bis zu 12,0 mm Ø	65	-	1	479-1450
9x9	—	Bis zu 13,3 mm Ø	65	-	1	479-1449
8x8	—	Bis zu 15,1 mm Ø	65	-	1	479-1448
7x7	—	Bis zu 17,3 mm Ø	65	-	1	479-1447
6x6	—	Bis zu 20,3 mm Ø	65	-	1	479-1446
5x5	—	Bis zu 24,3 mm Ø	65	-	1	479-1445
4x4	—	Bis zu 30,5 mm Ø	65	-	1	479-1444
3x3	—	Bis zu 41,0 mm Ø	65	-	1	479-1443

Biorepository

We have 100+ million samples stored and never failed to return one

International biorepository services organisation that supports customers across the entire regulated product research, development, and commercialisation lifecycle

Learn more on how we store





CRYOBXES, CARDBOARD, 136X136 MM

Cardboard.

- Waterproof coating
- Various combinations possible with different dividers (to be ordered separately)
- Available in different heights and five colours

For storage of cryovials at low temperatures.

Freezable to -140 °C

Compartments	Colour	For tubes	Height (mm)	WxDxH ext. (mm)	Pk	Cat. No.
Cryoboxes 32 mm high						
-	White	-	32	136x136x32	1	479-1412
-	Blue	-	32	136x136x32	1	479-1413
-	Red	-	32	136x136x32	1	479-1414
-	Green	-	32	136x136x32	1	479-1415
-	Yellow	-	32	136x136x32	1	479-1416
Cryoboxes 50 mm high						
-	White	-	50	136x136x50	1	479-1422
-	Blue	-	50	136x136x50	1	479-1423
-	Red	-	50	136x136x50	1	479-1424
-	Green	-	50	136x136x50	1	479-1425
-	Yellow	-	50	136x136x50	1	479-1426
Cryoboxes 75 mm high						
-	White	-	75	136x136x75	1	479-1432
-	Blue	-	75	136x136x75	1	479-1433
-	Red	-	75	136x136x75	1	479-1434
-	Green	-	75	136x136x75	1	479-1435
-	Yellow	-	75	136x136x75	1	479-1436
Cryoboxes 100 mm high						
-	White	-	100	136x136x100	1	479-1392
-	Blue	-	100	136x136x100	1	479-1393
-	Red	-	100	136x136x100	1	479-1394
-	Green	-	100	136x136x100	1	479-1395
-	Yellow	-	100	136x136x100	1	479-1396
Cryoboxes 130 mm high						
-	White	-	130	136x136x130	1	479-1402
-	Blue	-	130	136x136x130	1	479-1403
-	Red	-	130	136x136x130	1	479-1404
-	Green	-	130	136x136x130	1	479-1405
-	Yellow	-	130	136x136x130	1	479-1406
Grid dividers for cryoboxes 32 mm height						
16x16	—	Up to 7,5 mm Ø	25	-	1	479-1498
14x14	—	Up to 8,7 mm Ø	25	-	1	479-1497
13x13	—	Up to 9,4 mm Ø	25	-	1	479-1496
12x12	—	Up to 10,2 mm Ø	25	-	1	479-1495
10x10	—	Up to 12,3 mm Ø	25	-	1	479-1494

Compartments	Colour	For tubes	Height (mm)	WxDxH ext. (mm)	Pk	Cat. No.
Cryoboxes 32 mm high						
9x9	—	Up to 13,7 mm Ø	25	-	1	479-1493
8x8	—	Up to 15,4 mm Ø	25	-	1	479-1492
7x7	—	Up to 17,7 mm Ø	25	-	1	479-1491
Grid dividers for cryoboxes 50 mm height						
16x16	—	Up to 7,5 mm Ø	30	-	1	479-1482
14x14	—	Up to 8,7 mm Ø	30	-	1	479-1481
13x13	—	Up to 9,4 mm Ø	30	-	1	479-1480
12x12	—	Up to 10,2 mm Ø	30	-	1	479-1479
10x10	—	Up to 12,3 mm Ø	30	-	1	479-1478
9x9	—	Up to 13,7 mm Ø	30	-	1	479-1477
8x8	—	Up to 15,4 mm Ø	30	-	1	479-1476
7x7	—	Up to 17,7 mm Ø	30	-	1	479-1475
6x6	—	Up to 20,7 mm Ø	30	-	1	479-1474
5x5	—	Up to 24,9 mm Ø	30	-	1	479-1473
4x4	—	Up to 31,3 mm Ø	30	-	1	479-1472
3x3	—	Up to 41,9 mm Ø	30	-	1	479-1471
Grid dividers for cryoboxes 75 mm height						
12x12	—	Up to 10,2 mm Ø	40	-	1	479-1635
10x10	—	Up to 12,3 mm Ø	40	-	1	479-1634
9x9	—	Up to 13,7 mm Ø	40	-	1	479-1633
8x8	—	Up to 15,4 mm Ø	40	-	1	479-1632
7x7	—	Up to 17,7 mm Ø	40	-	1	479-1631
6x6	—	Up to 20,7 mm Ø	40	-	1	479-1630
5x5	—	Up to 24,9 mm Ø	40	-	1	479-1629
4x4	—	Up to 31,3 mm Ø	40	-	1	479-1628
3x3	—	Up to 41,9 mm Ø	40	-	1	479-1627
Grid dividers for cryoboxes 100/130 mm height						
10x10	—	Bis zu 12,3 mm Ø	65	-	1	479-1458
9x9	—	Bis zu 13,7 mm Ø	65	-	1	479-1457
8x8	—	Bis zu 15,4 mm Ø	65	-	1	479-1456
7x7	—	Bis zu 17,7 mm Ø	65	-	1	479-1455
6x6	—	Bis zu 20,7 mm Ø	65	-	1	479-1454
5x5	—	Bis zu 24,9 mm Ø	65	-	1	479-1453
4x4	—	Bis zu 31,3 mm Ø	65	-	1	479-1452
3x3	—	Bis zu 41,9 mm Ø	65	-	1	479-1451



CRYOBXES WITH DIVIDERS

Boxes, made of cardboard, white. For storage of cryovials at low temperatures.

- Resistant to temperatures down to -140 °C
- Standard waterproof coating

Compartments	WxDxH ext. (mm)	Pk	Cat. No.
81 (9x9)	133x133x32	1	479-1437
81 (9x9)	133x133x50	1	479-1438
81 (9x9)	133x133x75	1	479-1440
81 (9x9)	133x133x100	1	479-1441
81 (9x9)	133x133x130	1	479-1442
100 (10x10)	133x133x50	1	479-1439

479-1392



479-4004

CRYOBXES, PP, FLAT-PACKED

Made of corrugated or thin film PP.

- Easy self-assembly boxes shipped flat-packed
- More durable than cardboard boxes as they are not susceptible to moisture
- Significantly reduces the chance of mould
- Dividers included with the boxes
- Store down to temperatures of -80 °C

Designed with sustainability in mind, they are made from either specially formulated corrugated or thin film polypropylene. With superior durability, polypropylene outlasts the cardboard box alternative that is susceptible to softening and producing dust, and can be frozen and thawed multiple times without a problem. These cryoboxes are supplied 'flat-packed', which eliminates the hassle of stacking, and reduces the amount of space needed for storage.

Compartments	Colour	For tubes (ml)	Well Ø (mm)	WxDxH ext. (mm)	Pk	Cat. No.
Boxes, thin film PP						
81	White	1,5/2,0	12,1	125x125x49	10	479-4006
Boxes, corrugated PP						
144	Natural	0,2	7,9	133x130x30	10	479-4001
81	Natural	0,5	12,0	133x130x42	10	479-4002
25	Natural	5	22,6	133x130x75	10	479-4003
36	Natural	15	19,8	145x147x120	10	479-4004
16	Natural	50	31,6	145x147x120	10	479-4005



CRYOBXES, HALF SIZE, 136X66,5 MM

Corrugated cardboard box.

- Waterproof coating
- Freezable to -140 °C
- Available with or without dividers
- In different heights and five colours

For storage of cryovials at low temperatures.

Compartments	Colour	WxDxH ext. (mm)	Pk	Cat. No.
Cryoboxes, half size, with dividers				
5x10	White	136x66,5x50	10	479-7000
5x10	Blue	136x66,5x50	10	479-7001
5x10	Red	136x66,5x50	10	479-7002
5x10	Green	136x66,5x50	10	479-7003
5x10	Yellow	136x66,5x50	10	479-7004
Dividers for cryoboxes half size				
5x10	—	-	10	479-7005



CRYOBXES, DOUBLE SIZE, 133X257 MM

Corrugated cardboard box.

- Waterproof coating
- Freezable to -140 °C
- Available with and without dividers
- In different heights and five colours

For storage of cryovials at low temperatures.

Compartments	Colour	WxDxH ext. (mm)	Pk	Cat. No.
Cryoboxes, double size, without dividers				
-	White	133x257x50	1	479-7006
-	Blue	133x257x50	1	479-7007
-	Red	133x257x50	1	479-7008
-	Green	133x257x50	1	479-7009
-	Yellow	133x257x50	1	479-7010
Cryoboxes, double size, with dividers				
10x20	White	133x257x50	1	479-7011
10x20	Blue	133x257x50	1	479-7012
10x20	Red	133x257x50	1	479-7013
10x20	Green	133x257x50	1	479-7014
10x20	Yellow	133x257x50	1	479-7015
Dividers for cryoboxes double size				
8x16	—	-	1	479-7018
9x18	—	-	1	479-7017
10x20	—	-	1	479-7016



CRYOBXES, CARDBOARD, 136x136 MM, WITH FULL LABELLING

Cardboard, coated.

- Waterproof coating
- Freezable to -140 °C
- Available with or without dividers
- In different heights and five colours

For storage of cryovials at low temperatures.

Description	Compartments	Colour	WxDxH ext. (mm)	Pk	Cat. No.
Boxes, without dividers					
		White	136x136x55	1	479-7019
		Blue	136x136x55	1	479-7020
		Red	136x136x55	1	479-7021
		Green	136x136x55	1	479-7022
		Yellow	136x136x55	1	479-7023
		White	136x136x75	1	479-7024
		White	136x136x95	1	479-7025
Boxes, with dividers					
	10 x 10	White	136x136x55	1	479-7026
	10 x 10	Blue	136x136x55	1	479-7027
	10 x 10	Red	136x136x55	1	479-7028
	10 x 10	Green	136x136x55	1	479-7029
	10 x 10	Yellow	136x136x55	1	479-7030
	10 x 10	White	136x136x75	1	479-7031
	10 x 10	White	136x136x95	1	479-7032
Dividers for cryoboxes					
For cryoboxes 55 mm height	10x10			1	479-7033
For cryoboxes 75 mm height	10x10			1	479-7034
For cryoboxes 95 mm height	10x10			1	479-7035



MICROTUBE STORAGE BOXES

PP.

- Highly transparent, with bold identifying colours and a distinctive wave design
- Uniform wells with location ID; capacity indicated on the outside of the box
- Black light-tight version available for light-sensitive samples
- Frosted labelling patch

Compact footprint for microtube and cryogenic vial storage. Store 1,5/2,0 ml microtubes or cryogenic vials. Complete with an easy open, friction-fit lid. Will fit into most standard freezer racking.

Assorted pack contains one of each colour blue, green, pink, yellow and orange.

Compartments	Colour	WxDxH ext. (mm)	Pk	Cat. No.
50-well boxes, hinged lid with snap-clasp				
50	Assorted colours	142x92x56	5	525-0933
50	Natural	142x92x56	5	525-0932
81-well boxes, friction fit lid				
81	Assorted colours	130x130x47	5	525-0940
81	Natural	130x130x47	5	525-0934
81	Blue	130x130x47	5	525-0935
81	Green	130x130x47	5	525-0936
81	Pink	130x130x47	5	525-0937
81	Yellow	130x130x47	5	525-0938
81	Orange	130x130x47	5	525-0939
81	Black	130x130x47	5	525-0941
100-well boxes, hinged lid with snap-clasp				
100	Assorted colours	141x151x47	5	525-0925
100	Natural	141x151x47	5	525-0926
100	Blue	141x151x47	5	525-0928
100	Green	141x151x47	5	525-0929
100	Yellow	141x151x47	5	525-0930
100	Orange	141x151x47	5	525-0931
100	Black	141x151x47	5	525-0927

CRYOVIAL WORKSTATION RACK

Constructed from sturdy polypropylene, the VWR cryovial workstation rack is compact and stackable, with strong handles for safe and easy transport.

- Holds up to 50 cryogenic vials
- Autoclavable
- Anti-skid rubber feet for bench top stability
- Alphanumeric indexing for easy vial identification



For (ml)	No. of holes	WxDxH (mm)	Colour	Pk	Cat. No.
1 - 5	50 (5x10)	205x103x26	Violet	4	479-1869

SLIDING SHELF RACKS FOR CRYOBOXES, COMFORT

Stainless steel.

- Racks for five different box heights are available
- Can be used with all freezer brands
- Fits all standard cryoboxes

For upright freezers. These racks ensure a more ergonomic operating process. The cryoboxes are placed in drawers in the sliding shelf rack, increasing flexibility. Measure the inside height and depth of your freezer in order to choose the right rack.

Delivered with or without cryoboxes.



Compartments	WxDxH ext. (mm)	Pk	Cat. No.
Racks for cryoboxes height 50 mm			
15 (5x3)	140x421x285	1	479-0760
20 (5x4)	140x558x285	1	479-0763
25 (5x5)	140x640x278	1	479-1839



RACK FOR CRYOGENIC VIALS

PC.

- Numeric hole index
- Moulded tabs in the bottom of each well to secure vials in place for easier opening and closing
- Ribbed grips make handling with gloves easier

Withstands both cryogenic freezing and autoclaving.

For (ml)	No. of holes	WxDxH (mm)	Colour	Pk	Cat. No.
(Ø 12,5 mm) 1 - 5	50 (5x10)	199x104x24,5	Blue	1	211-0139



RACKS FOR 15 OR 50 ML TUBES

PP, with clear lid.

- Deep grid wells securely hold tubes upright
- Locate tubes easily with keyed lid, imprinted grid and first tube orientation
- View tube storage through clear lid and transparent sides

Robust, rugged construction for repeated storage. Snap in one of the two included grids, either 15 or 50 ml.

Colour	WxDxH (mm)	Pk	Cat. No.
Purple	132x132x129	5	211-0370



CENTRIFUGE TUBE STANDS

PP, purple.

- Free from DNase and RNase and non pyrogenic
- Autoclavable at 121 °C and freezable to -80 °C
- Very good chemical resistance

Suitable for 1,5/2,0 ml microcentrifuge tubes and 15/50 ml conical centrifuge tubes.

Description	No. of holes	Colour	Pk	Cat. No.
For 1,5/2,0 ml microcentrifuge tubes and 15/50 ml centrifuge tubes	7	Purple	5	525-1003



CRYO 1 °C FREEZING CONTAINER

Container PC, closure and vial holder HDPE, foam insert.

- Floating rigid insert prevents vials from contamination
- Withstands repeated use; labelled with step-by-step instructions
- Holds up to 18 cryogenic vials (1; 1,2; 1,5 and 2 ml)

Non mechanical device that uses isopropyl alcohol and a mechanical freezer to provide cooling rate of -1 °C per minute. Ideal for successful cell cryopreservation and recovery.

Description	Int.ØxH (mm)	No. of holes	Pk	Cat. No.
Cryo 1 °C freezing container	86x117	18	1	479-0640

GLYCERINE SOLUTION 20%, BIOTECHNOLOGY GRADE, STERILE

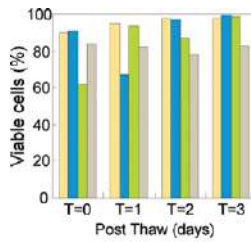
Used as a cryopreservative in bacterial preservation media.

- Sterile
- Used in cell culture applications

Description	Pack type	Pk	Cat. No.
Glycerine solution 20%, Biotechnology Grade, sterile	Plastic bottle	100 ml	E550-100ML

DIMETHYL SULPHOXIDE ≥99.9%, ULTRA PURE GRADE

Description	Pack type	Pk	Cat. No.
Dimethyl sulphoxide ≥99.9%, Ultra Pure Grade	Plastic tube	5	N182-5X10ML



Viability of post-thaw cultures of K562 cells. Cells frozen in AMRESCO SeraFree Cryopreservation Media (□) exhibited higher recovery than cells frozen in traditional RPMI freezing media containing DMSO and serum (■). Viability of cells recovering from cryopreservation in AMRESCO SeraFree Cryopreservation Media was comparable or better than that of cells in Competitors 1 (□) and 2 (■) serum-free freezing media. Viability was determined by standard trypan-blue exclusion assay.

CRYOPRESERVATION MEDIA, SERAFREE

SeraFree cryopreservation media is ready to use freezing media for cryopreservation of adherent or suspension cultured cells. The animal-free media composition eliminates batch-to-batch variability and is optimised for cell viability and cell growth after thawing. Suitable for use in environments that prohibit the use of animal-derived products.

- Sterile and endotoxin tested
- Ready to use, animal-free, RPMI- or DMEM-based media
- Optimises cell growth and cell viability after thawing
- Reduces potential for transmission of infectious diseases

Description	Pk	Cat. No.
Cryopreservation media, DMEM-based	50 ml	N676-50ML



ICE BUCKETS, RECTANGULAR, WITH LID

Polyurethane foam.

- Resistant to temperatures from -76 to +70 °C
- Extremely robust, leakproof, stackable, lightweight
- Available in two sizes and four colours
- Stacking option for space saving on working bench
- Pouring lip design, for easy draining of liquid
- With lid to reduce the evaporation level of dry ice, water ice with salt slurry

Ideal for storing samples, these buckets maintain hot or cold temperatures of bottles, test tubes, solutions and cultures. Suitable for use with dry ice, water ice, salt solution. For freezer storage only.

Capacity (l)	Colour	WxDxH (mm)	Pk	Cat. No.
2,5	Black	285x338x120	1	216-1510
2,5	Blue	285x338x120	1	216-1513
2,5	Green	285x338x120	1	216-1514
2,5	Red	285x338x120	1	216-1515
4,5	Black	285x338x187	1	216-1516
4,5	Blue	285x338x187	1	216-1517
4,5	Green	285x338x187	1	216-1518
4,5	Red	285x338x187	1	216-1519



479-0642

LABTOP COOLERS

-20 °C mini labtop cooler PC, non toxic gel

The -20 °C mini labtop cooler holds 12x 0,5 or 1,5 ml microcentrifuge tubes at below -20 °C for over 1 hour. Ideal for bench top use or transport. Wire handle secures top while carrying. Filled with non toxic gel. Prior to use, place in -25 °C freezer for at least 24 hours, store at -25 °C between use.

-20 °C maxi labtop cooler PC, non toxic gel

The -20 °C maxi labtop cooler, holds 32x 0,5 or 1,5 ml microcentrifuge tubes at below -20 °C for over 1 hour. Suitable for bench top use or transport. Wire handle secures top while carrying. Cooler and lid filled with non toxic gel. Store at -25 °C between use.

-20 °C labtop cooler PC, non toxic gel

The -20 °C labtop cooler maintains temperatures between -20 and -15 °C for up to 4 hours. Holds 20x 1,5 or 2,0 ml microcentrifuge tubes or cryovials. Inserts included hold 0,2 to 0,5 ml microcentrifuge tubes. Printed grid, keyed lid, locking handle and non skid feet. Store at -25 °C between use.

Description	No. of holes	WxDxH (mm)	Pk	Cat. No.
-20 °C mini labtop cooler	12	151x108x125	1	479-0642
-20 °C labtop cooler	20	151x108x125	1	479-0643
-20 °C maxi labtop cooler	32	243x157x146	1	479-0641



BOX STORAGE SYSTEM, BSS SERIES

BSS tanks offer various solutions for storage of vials or straws in liquid or gaseous phase. They provide extremely good temperature uniformity, even with as little as 2 cm of liquid nitrogen remaining above the rack insulator (or 5 cm above the bottom of BSS-5100). The tanks are manufactured from aluminium alloy with fibre glass/ epoxy neck and a high vacuum multi-layered super insulation that limits nitrogen evaporation.

- Extremely good temperature uniformity
- Lid can also be padlocked shut, except on model BSS-5100 (padlock not included)

CE - Medical.

S70 controller: Temperature read out (1 point), automatic filling procedure (up to desired LN₂ level), visible and audible alarms (high/ low temperature and level, and time-out fill error), one potential free contact (with programmable function) for external alarm.

The newly developed **S170 controller** offers maximum sample security and many features: Automatic filling procedure, temperature measurement (via two probes), regulation of liquid nitrogen level, providing visual and audible alarms (low level alarm, low level fill, normal level stop fill, high level alarm), position of the cover display (open/ closed), management of the 'defog' function (for better visibility inside the vessel), RS485 interface enables complete management and control of the system via a PC (software included), four potential free contacts for connection to an in-house alarm system or to a telephone dialling system (four different alarm functions can be transferred).

Stainless steel racks for standard type boxes (25, 81 or 100 tubes) are included.

For BSS-5100: Pie-shaped drawers (for cryotubes) or canisters (for goblets and straws) must be ordered separately.

Model	BSS-750	BSS-3000	BSS-4800
Capacity (l)	48,5	100	148
Static holding time (days)	180	155	227
Ø×H (mm)	500×707	680×748	680×920
No. of canisters	30		48
No. of test tube racks	6		
Weight, empty (kg)	20,5	45	56

Description	Neck-Ø (mm)	Pk	Cat. No.
BSS-750	119	1	478-0274
BSS-3000	215	1	478-0279
BSS-4800	215	1	478-0280



CRYOGENIC STORAGE VESSELS, CSS AND XSS SERIES

CSS series tanks offer storage for small to medium capacity applications. The XSS series offer similar benefits and extended storage capacity. The tanks are manufactured from aluminium alloy with fibre glass/epoxy neck. High vacuum, multi-layered super insulation limits nitrogen evaporation.

- Extremely low liquid nitrogen evaporation
- Lid is lockable with padlock (not included)
- Vessels are equipped with stainless steel canisters with hook for easy retrieval from the vessel

The samples are placed in stainless steel canisters directly in the liquid nitrogen inside the vessel.

Canisters which are 270 mm high can hold two goblets or canes with 6x1,8 ml vials

Canisters which are 110 mm high can hold one goblet or 1/2 height canes with 3x1,8 ml vials

CE - Medical

Model	CSS-4/6	CSS-10/6	CSS-21/6	CSS-36/6	XSS-13/6	XSS-26/10	XSS/36/6	XSS-48/10
Capacity (l)	4,1	10,5	21,7	35,9	13	26	35,9	48,5
Static holding time (days)	42 (without canister)	93 (without canister)	238 (without canister)	365 (without canister)	59 (without canister)	104 (without canister)	211 (without canister)	180 (without canister)
ØxH (mm)	245x433	368x455	395x673	480x652	380x450	480x482	480x688	500x707
No. of canisters			6			10	6	10
ØxH canisters (mm)	37x110		37x270		66x110		66x270	73x270
Weight, empty (kg)	4,2	6,4	9,8	16	8,7	11,2	14,7	17,1

Description	Neck-Ø (mm)	Pk	Cat. No.
CSS series; models with very low LN₂ consumption			
CSS-4/6	51	1	478-0281
CSS-10/6	51	1	478-0282
CSS-21/6	51	1	478-0283
CSS-36/6	51	1	478-0284
XSS series; models with low LN₂ consumption and increased storage capacity			
XSS-13/6	89	1	478-0285
XSS-26/10	89	1	478-0286
XSS-36/6	89	1	478-0287
XSS-48/10	119	1	478-0288

Description	Pk	Cat. No.
Accessories		
Roller base with 4 castors, extendable, can accommodate containers with outer Ø 360 to 490 mm, maximum load 60 kg on smooth floor	1	478-0301
Roller base with 5 castors (2 equipped with brakes), can accommodate containers with outer Ø 680 mm, maximum load 250 kg on smooth floor	1	478-0303
Roller base with 5 castors (2 equipped with brakes), extendable, can accommodate containers with outer Ø 460 to 500 mm, maximum load 120 kg on smooth floor	1	478-0302

LIQUID NITROGEN DEWARs FOR STORAGE AND TRANSPORT, LD SERIES

LD series aluminium Dewars are specially designed for storage and transport (not on public roads) of liquid nitrogen and are ideal for most miscellaneous laboratory and industrial applications.

- Lightweight, reliable and robust
- Very easy to handle

The bigger units (LD-25, LD-35 and LD-50) are fitted with an NW50 Pneurop-flange for mounting a pressure head for LN₂ withdrawal.



Model	LD-2M	LD-5	LD-12	LD-25	LD-35	LD-50
Capacity (l)	2	5,5	12,4	25	35	50
ØxH (mm)	190x465	245x494	310x600	395x684	480x591	500x675
Weight, empty (kg)	2,7	4,4	8,1	10	13	17

Description	Neck-Ø (mm)	Pk	Cat. No.
Dewar, LD-2M	35	1	478-0289
Dewar, LD-5	50	1	478-0290
Dewar, LD-12	50	1	478-0291
Dewar, LD-25	50	1	478-0292
Dewar, LD-35	50	1	478-0293
Dewar, LD-50	50	1	478-0294

Description	Pk	Cat. No.
Accessories		
Basic withdrawal head can be connected to any model with a Pneurop NW50 flange; small amounts of liquid nitrogen can be withdrawn from the Dewar until the inner pressure of the vessel has dropped to ambient pressure	1	478-0296
Electric pump MP25/50 for LD25/LD50 cryogenic container, manually activated	1	478-0368
Phase separator, ØxH: 30x100 mm	1	478-0316
LN ₂ level indicator stick, 62 cm long, with grading in cm and inches	1	478-0300
Low level alarm, with voltage-free contact, warns user of any imminent shortage of nitrogen inside the container; fits on all models, probe to be fixed on the canister to desired length	1	478-0304
Standard flexible hose; 1,20 m, 2x female 3/4" connections	1	478-0315
Standard flexible hose; 2 m, 2x female 3/4" connections	1	478-0371
Standard flexible hose; 3 m, 2x female 3/4" connections	1	478-0372
Transfer elbow with phase separator, can be mounted on the withdrawal valve of the TS head	1	478-0298
Withdrawal tube with deflector shield and phase separator (can be mounted on the withdrawal valve of the TS head), flexible not included	1	478-0299

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DRY SHIPPERS, DS SERIES

Dry shippers are used for the safe transport of samples at cryogenic temperatures.

Hydrophobic absorbent material is fixed in the inner capacity of the vessel. After complete saturation of the material with liquid nitrogen, the vessels are ready to transport samples at cryogenic temperatures, without the risk of liquid nitrogen spilling if the container is overturned.

Model DS-24 can be equipped with removable absorbent cartridges to improve the holding time.

* DS-24 is delivered without canister, rack or cartridge (must be ordered separately).
For details of the range contact your local VWR sales office.

CE - Medical.

Shippers do not conform to International Air Transport Regulations (IATA) for transportation of infectious material.

Model	DS-2	DS-5	DS-24
Capacity (l)	2	5,2	24
Ø×H (mm)	190×407	251×497	400×664
No. of canisters		1	7*
No. of test tube racks		-	1×6 boxes*
Static holding time (days)	23	19	11
Weight, empty (kg)	3,3	6,9	15,6

Description	Neck-Ø (mm)	Pk	Cat. No.
Dry shipper, DS-2	35	1	478-0305
Dry shipper, DS-5	70	1	478-0306
Dry shipper, DS-24	215	1	478-0307

Description	For	Pk	Cat. No.
Removable cartridges for DS-24			
60 mm cartridge to enlarge the capacity of absorbed LN ₂	DS-24	1	478-0317
120 mm cartridge to enlarge the capacity of absorbed LN ₂	DS-24	1	478-0318
Extractor for cartridges	DS-24	1	478-0319

Description	For	Pk	Cat. No.
Protective flight case for DS, with foam protection inside			
Case with 4 mm foam protection inside	DS-2	1	478-0308
Case with 4 mm foam protection inside	DS-5	1	478-0309
Accessories			
Complementary triangular storage system, 6 baskets in stainless steel (9 levels)		1	478-0708
Protective flight case for DS, with foam protection inside			
Case with 7 mm foam protection inside	DS-24	1	478-0310
Accessories			
Phase separator, Ø×H: 30×100 mm		1	478-0316
Standard flexible hose; 1,20 m, 2× female ¼" connections		1	478-0315
Standard flexible hose; 2 m, 2× female ¾" connections		1	478-0371
Standard flexible hose; 3 m, 2× female ¾" connections		1	478-0372



BAGS, NON HAZARDOUS WASTE

Sturdy bags, ideal for disposing of non hazardous waste that must first be autoclaved. In PP, 50 µm thick, transparent, with labelling area.

- Autoclavable up to 121 °C
- Highly resistant to tears and impact
- Specially welded seams reduce risk of leakage

Bags meet the requirements of the 165 g puncture inspection standard as described in ASTM D1709-98.

Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
11	PP	483x356	200	129-0020
27	PP	610x483	200	129-0021
80	PP	889x635	200	129-0022
210	PP	1143x914	100	129-0023



BIOHAZARD BAGS, PP

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved. Complete with wire closures that allow expansion of the bag and ventilation when cooling. Highly resistant to tears and punctures. Available as transparent bags without temperature indicator, or orange with temperature indicator. PP, 50 µm thick, with 'Biohazard' label.

- Autoclavable up to 135 °C
- The useful temperature indicator text is white before autoclaving, then black
- 'Contents Have Been Autoclaved' indicates successful autoclaving
- Highly visible 'Biohazard' label with the corresponding warning sign

Bags meet the requirements of the 165 g puncture inspection standard as described in ASTM D 709-98.

Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
Orange				
11	PP	483x356	200	129-0024
27	PP	610x483	200	129-0025
80	PP	889x635	200	129-0026
Clear				
-	PP	965x1220	100	129-1157
Orange				
210	PP	1143x914	100	129-0027
Clear				
12	PP	610x305	200	129-0028
75	PP	915x610	200	129-0029



BAGS, BIOHAZARD

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved.

PP, 75 µm thick, red, with 'Biohazard' label.

- Autoclavable up to 135 °C
- The useful temperature indicator text is white before autoclaving, then black
- 'Contents Have Been Autoclaved' indicates successful autoclaving
- Luminous red for easy recognition and highly visible 'Biohazard' label with the corresponding warning sign

Capacity (l)	Material	LxW (mm)	Thickness (µm)	Pk	Cat. No.
12	PP	610x305	75	250	129-0030
75	PP	914x610	75	250	129-0031
260	PP	1220x965	75	50	129-0032



BAGS, BIOHAZARD

These sturdy bags are ideal for disposing of biologically hazardous waste that must first be autoclaved. PP, 50 µm thick, red.

- Autoclavable up to 135 °C
- Available with or without temperature indicator
- Useful temperature indicator text is white before autoclaving, then black
- Text 'Contents Have Been Autoclaved' indicates successful autoclaving
- Luminous red for easy recognition and highly visible 'Biohazard' label with corresponding warning sign

Bags meet the requirements of the 480 g tensile strength test as described in ASTM D 299-94A.

Description	Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
Red, with printed sign and temperature indicator	12	PP	610x305	200	129-0033
Plain red, without printed sign	12	PP	610x305	200	129-0037
Red, with printed sign and temperature indicator	75	PP	914x610	200	129-0035
Red, with printed sign and temperature indicator	80	PP	890x635	200	129-0034
Red, with printed sign and temperature indicator	260	PP	1219x965	100	129-0036



BAGS, BIOHAZARD

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved. Supplied complete with the necessary sealing wires. HDPE, 100 µm thick, red, with 'Biohazard' label.

- Autoclavable up to 121 °C
- Highly resistant to tears and impact
- Luminous red for easy recognition and highly visible 'Biohazard' label with corresponding warning sign

Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
12	HDPE	610x305	50	129-0039
75	HDPE	914x610	50	129-0040
260	HDPE	1220x965	50	129-0041



With 'Biohazard' printing

DISPOSAL BAGS

For safe disposal of laboratory waste such as pipette tips, disposable Petri dishes, sample tubes, etc.

PP, 40 µm thick, clear, with or without 'Biohazard' printing.

- Heat resistant up to 145 °C
- Autoclavable

Description	Capacity (l)	LxW (mm)	Pk	Cat. No.
Without 'Biohazard' printing				
Autoclavable bags, clear	2	300x200	500	129-0578
Autoclavable bags, clear	3	400x250	500	129-0579
Autoclavable bags, clear	12	660x305	500	129-0580
Autoclavable bags, clear	14	610x420	500	129-0582
Autoclavable bags, clear	16	780x400	500	129-0581
Autoclavable bags, clear	25	770x550	500	129-0583
Autoclavable bags, clear	32	780x600	500	129-0584
Autoclavable bags, clear	40	1100x700	350	129-0585
Autoclavable bags, clear	60	1100x900	100	129-0586
With 'Biohazard' printing				
Autoclavable bags, clear, with 'Biohazard' printing	12	660x305	200	129-0587
Autoclavable bags, clear, with 'Biohazard' printing	14	610x420	200	129-0588
Autoclavable bags, clear, with 'Biohazard' printing	32	780x600	200	129-0589



129-1150

AUTOCLAVABLE BAGS, YELLOW, BIOHAZARD

Ideal for processing biohazardous materials that require autoclaving prior to disposal. Available with or without temperature indicator. High integrity polypropylene bags withstand 135 °C (275 °F) maximum autoclave temperature.

PP, 50 µm thick, yellow.

- Twist-tie closure allows bag to expand and vent steam during cooling
- Bags resist punctures, tears and leaks, and they also meet the 165 g dart-drop standard as required by ASTM D1709-98
- Each bag is imprinted with the universal biohazard symbol

All biohazard bags have a temperature indicator patch with the words 'Contents Have Been Autoclaved' printed in a chemically active ink. Before autoclaving the ink is clear on a white background, after autoclaving is complete, it darkens and words appear in a dark brown colour, providing proof that bag has been exposed to high temperatures for sterilisation.

LxW (mm)	Packed	Pk	Cat. No.
356x483	Case of 200	200	129-1149
483x610	Case of 200	200	129-1150
610x914	Case of 200	200	129-1151
940x1220	Case of 100	100	129-1152
203x305	Case of 400	400	129-1148



LENS CLEANING TISSUES, GRADE 541

Suitable for cleaning various optical lenses such as objectives, binoculars, magnifying glasses, spectacles, as well as optical fibre filaments.

Description	LxW (mm)	Packed	Pk	Cat. No.
Lens cleaning tissues	80x100	1x500 sheets	500	111-5003
Lens cleaning tissues	100x150	25x25 sheets	625	111-5004



LAB MAT, SILICONE

The reusable, environmentally friendly lab mat is an economical solution to help keep bench tops clean and safe from stains, spills and wear. The Lab Mat is made from a durable FDA-approved silicone material that creates a stain resistant, washable working surface. It is chemically inert and does not react with most chemicals.

- Protect bench tops from hot items up to 200 °C
- Large anti-skid and noise-dampening working surface
- Lip design around the outer edge of the mat helps contain spillage
- Can be cleaned with standard disinfectants in a sink or dishwasher, allowing repeated use
- Mat can be rolled up for compact storage
- Autoclavable at 121 °C for 15 minutes

Can be used with centrifuges, vortex mixers, hot plates, stirrers, pipettes. Ideal for every type of laboratory and more specialised areas, such as cold rooms, cleanrooms, sterile suites and areas where high sterility is a requirement.

Thickness (mm)	Colour	LxW (mm)	Pk	Cat. No.
2	Purple	350x600	1	111-9200



BENCH PROTECTORS

High quality, smooth, absorbent paper that quickly absorbs liquid spills with a thick, laminated polyethylene layer that prevents seeping onto the work surface.

- Retains leaked reagents in radiochemical laboratories preventing radioactive contamination
- Enables recovery of expensive leaked materials
- Breakage protection for hard surfaces
- Absorption layer for removing water or solvent from desiccant chambers
- Impermeable protective material for lining animal cages

Absorbance rate: 115-9220 and 115-9221: 500 ml/m²

Absorbance rate: 115-0673: 750 ml/m²

Colour	LxW (mm)	Packed	Pk	Cat. No.
White	460x570	Single sheets	50	115-9220
White	460x50 000	Roll	1	115-9221
White	460x570	Single sheets	50	115-0673



ELECTROPORATION CUVETTES

These electroporation cuvettes are made from clear, medical grade polycarbonate and are compatible with all common commercially available electroporators.

- Polished aluminium lowers arcing frequency
- Colour coded caps for easy identification of gap sizes
- Round caps for easy, single-handed cap removal

Available in three gap sizes to meet common application requirements: 1 mm for highest field strength, suitable for bacteria; 2 mm gap for intermediate requirements; 4 mm gap for lowest field strength, suitable for mammalian cells and some plant cells.

Sterilised by gamma irradiation and individually packed for assured sterility.

Description	Volume (µl)	Pk	Cat. No.
Cuvettes with 1 mm gap size, grey cap	20 - 90	50	732-1135
Cuvettes with 2 mm gap size, blue cap	40 - 400	50	732-1136
Cuvettes with 4 mm gap size, yellow cap	80 - 800	50	732-1137

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