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DWK Life Sciences

Clinical & Healthcare Solutions

DWK Life Sciences is your global 1 source, end-to-end solution for quality clinical glass and plastic, improving the **collection, preparation and diagnosis** of patient samples. With you as our primary focus, we leverage our manufacturing expertise and supply chain excellence to ensure you get the right product at the right time...always.

Our selection of high quality, always available glass and plastic products meets your protocols and budgets in histology, hematology and microbiology lab applications. What's more, our primary products are manufactured in the USA and have broad global availability.

Our premium services not only add value, but live up to the same quality standards as our extensive packaging offering. Experience the full suite of DWK Life Sciences services:

- Consigned inventory: goods stored at customer location and paid for as used
- Custom configurations: inventory/run rate matching to workflow, component kitting/bundled solutions
- Custom glass & plasticware: analytical, process, OEM, storage and product development
- Sterilization: dry heat, autoclave, gamma, E-beam



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Speak to your sales representative or contact customer care for a full selection of Clinical and Healthcare products.

WHEATON® COMPLETEPAK®

The WHEATON® COMPLETEPAK® product line is a range of crimp top vials, rubber stoppers and seals that are ready-to-use and are off-the-shelf, which can be customized for any application. This reduces our customer's supply chain due to our one source solution capability. Each kit comes with specific United States Pharmacopeia (USP) certificates showing that the product meets or exceeds critical USP standards that are enforced by the Federal Drug Administration (FDA). This kind of solution allows for our customers to focus on their core competency which is manufacturing, compounding and developing drug products.

Target Applications

Compounding pharmaceuticals
Aseptic filling of injectable drug products
Drug discovery
Drug research
Freeze drying / lyophilized drug products
Large and small molecule drug packaging



TOP 10 REASONS WHY YOU SHOULD CHOOSE COMPLETEPAK FOR YOUR APPLICATION:

1. Products supplied ready-to-use
2. Reduces lead times
3. Focuses your efforts on core competencies
4. Eliminates capital investments in equipment needed for cleaning and preparing glassware or plastic containers
5. Frees up valuable clean room space
6. Limits number of suppliers required to provide complete packaging product
7. Improves quality
8. Validated processes
9. Saves valuable time and money while maintaining a high quality product and streamlining process
10. One source for total packaging solutions

Key Benefits

- Sterilized, off-the-shelf, ready-to-use products
- 18 month shelf life from date of processing
- Variety of different sterile components — a solution for any application
- Comes with critical certifications such as USP <788> Particulate Matter in Injections, USP <85> The Bacterial Endotoxins Test and USP <71> The Sterility Test
- Container Closure Integrity (CCI) certification available upon request
- Each kit has equal amounts of components for reduced scrap rates
- Pre & post-sales support due to in-house technical support and quality teams
- Complete manufacturing traceability



COMPLETEPAK Kits

Cat. No.	Description (pieces/kit)	Qty / Case
06-451-220	2mL Clear Sterile Vial (210), 13mm Ultra Pure Sterile Serum Stopper (230), Sterile Blue Seal (230)	1
06-451-221	2mL Clear Sterile Vial (210), 13mm Omni Flex 3G Sterile Serum Stopper (230), Sterile Blue Seal (230)	1
06-451-222	2mL Clear Sterile Vial (210), 13mm OmniFlex 3G Sterile Igloo Lyo Stopper (230), Sterile Blue Seal (230)	1
06-451-223	2mL Clear Sterile Vial (210), 13mm Ultra Pure Sterile Serum Stopper (230), Sterile Red Seal (230)	1
06-451-224	2mL Clear Sterile Vial (210), 13mm Omni Flex 3G Sterile Serum Stopper (230), Sterile Red Seal (230)	1
06-451-225	2mL Clear Sterile Vial (210), 13mm OmniFlex 3G Sterile Igloo Lyo Stopper (230), Sterile Red Seal (230)	1
06-451-226	5mL Clear Sterile Vial (200), 20mm Ultra Pure Sterile Serum Stopper (220), Sterile Blue Seal (220)	1
06-451-227	5mL Clear Sterile Vial (200), 20mm OmniFlex 3G Sterile Serum Stopper (220), Sterile Blue Seal (220)	1
06-451-228	5mL Clear Sterile Vial (200), 20mm OmniFlex 3G Igloo Lyo Stopper (220), Sterile Blue Seal (220)	1
06-451-229	5mL Clear Sterile Vial (200), 20mm Ultra Pure Sterile Serum Stopper (220), Sterile Red Seal (220)	1
06-451-230	5mL Clear Sterile Vial (200), 20mm OmniFlex 3G Sterile Serum Stopper (220), Sterile Red Seal (220)	1
06-451-231	5mL Clear Sterile Vial (200), 20mm OmniFlex 3G Sterile Igloo Lyo Stopper (220), Sterile Red Seal (220)	1
06-451-232	10mL Clear Sterile Vial (158), 20mm Ultra Pure Sterile Serum Stopper (220), Sterile Blue Seal (220)	1
06-451-233	10mL Clear Sterile Vial (158), 20mm OmniFlex 3G Sterile Serum Stopper (220), Sterile Blue Seal (220)	1
06-451-234	10mL Clear Sterile Vial (158), 20mm OmniFlex 3G Sterile Igloo Lyo Stopper (220), Sterile Blue Seal (220)	1
06-451-235	10mL Clear Sterile Vial (158), 20mm Ultra Pure Sterile Serum Stopper (220), Sterile Red Seal (220)	1
06-451-236	10mL Clear Sterile Vial (158), 20mm OmniFlex 3G Sterile Serum Stopper (220), Sterile Red Seal (220)	1
06-451-237	10mL Clear Sterile Vial (158), 20mm OmniFlex 3G Sterile Igloo Lyo Stopper (220), Sterile Red Seal (220)	1

*See all individual COMPLETEPAK Sterile Components at dwk.com

Clear Ampule, Pre-scored

- Pre-scored to eliminate filing
- Made from low extractable borosilicate glass that conforms to USP Type I and ASTM E 438 Type I, Class A requirements
- Stems can be pull or tip sealed



Part Number	Size (mL)	Dia. x H (mm)	Case Qty
01-215A	1	10.5 x 67	144
01-215B	2	12 x 75	144
01-215C	5	16.5 x 84	144
01-215D	10	19 x 107	144
01-215L	20	22.5 x 130	144

Wide Mouth Container, Polystyrene

- Clear polystyrene offers clarity of glass and safety of plastic
- Good resistance to inorganic chemicals
- Pre-attached white polypropylene screw cap with foamed polyethylene liner



Part Number	Size (mL)	Dia x H (mm)	Cap Size	Case Qty
02-912-992	30	39 x 41	43-400	72
02-912-993	60	49 x 46	53-400	48
02-912-994	125	53 x 68	58-400	36
02-912-995	250	84 x 64	89-400	36
02-912-996	500	85 x 99	89-400	24
02-912-997	1000	116 x 97	120-400	24

Ampule, Standard

- Commonly used for packaging certified standards
- Consistent with low background counts
- Made from low potassium borosilicate glass that conforms to USP Type I and ASTM E 438 Type I, Class A requirements



Part Number	Size (mL)	Dia. x H (mm)	Case Qty
01-215E	7	17 x 95	25
01-215F	20	28 x 100	25

Wide Mouth Container, Polypropylene

- Durable container with good chemical resistance
- Pre-attached white polypropylene screw cap unlined or with foamed polyethylene liner
- Polypropylene container with linerless cap is autoclavable



Part Number	Size (mL)	Dia x H (mm)	Cap Size	Cap Liner	Case Qty
15-112-188	30	39 x 41	43-400	No liner	72
02-912-986	30	39 x 41	43-400	Polyethylene	72
02-912-981	60	49 x 46	53-400	No liner	48
02-912-987	60	49 x 46	53-400	Polyethylene	48
02-912-982	125	53 x 68	58-400	No liner	36
02-912-988	125	53 x 68	58-400	Polyethylene	36
02-912-983	250	84 x 64	89-400	No liner	36
02-912-989	250	84 x 64	89-400	Polyethylene	36
02-912-984	500	85 x 99	89-400	No liner	24
02-912-990	500	85 x 99	89-400	Polyethylene	24
02-912-985	1000	116 x 97	120-400	No liner	24
02-912-991	1000	116 x 97	120-400	Polyethylene	24

Serum Bottles

- Ideal for long and short term sample storage, lyophilization and vaccine / injectable drug containers
- Fits most lyophilization applications
- Borosilicate glass conforms to USP Type I requirements
- Clear bottles manufactured from WHEATON 400 borosilicate molded glass that conforms to USP Type I requirements
- Amber bottles manufactured from WHEATON 500 borosilicate glass that conforms to USP Type I requirements
- Shrink-wrapped partitioned modules reduce breakage



Part Number	Color	Size (mL)	Mouth ID x OD (mm)*	Dia. x H (mm)	Fits Rack	Case Qty
06-406A	Clear	2	7 x 13	15.6 x 36	22-262-955	288
06-406C	Clear	5	13 x 20	23 x 47	06-4088	288
06-402A	Amber	5	13 x 20	23 x 47	06-4088	288
06-406D	Clear	10	13 x 20	25 x 54	06-4086	288
06-402B	Amber	10	13 x 20	25 x 54	06-4086	288
06-406E	Clear	20	13 x 20	32 x 58	—	288
06-402C	Amber	20	13 x 20	32 x 58	—	288
06-406F	Clear	30	13 x 20	37 x 63	—	288
06-402D	Amber	30	13 x 20	37 x 63	—	288
06-406G	Clear	50	13 x 20	43 x 73	—	288
06-402E	Amber	50	13 x 20	43 x 73	—	288
06-406H	Clear	60	13 x 20	41 x 91	—	144
06-406J	Clear	100	13 x 20	52 x 95	—	144
06-402F	Amber	100	13 x 20	52 x 95	—	144
06-406K	Clear	125	13 x 20	54 x 107	—	144

*Note: Select aluminum seal and stopper size by using the mouth OD dimension of the bottle or vial

**See the full closure selection at dwk.com

Dropping Bottle, with Tip & Cap

- Bottle made of LDPE (Low Density Polyethylene)
- Extended controlled dropper tip dispenses one drop at a time
- Average drop size is 44µL ±6µL
- Radiation grade polypropylene screw caps and tips packaged separately
- Dropping bottles, natural tips and white caps are packaged separately



Part Number	Color	Size (mL)	Dia. x H (mm)	Cap Size	Qty/Pack	Case Qty
03-439-61W	Natural	3	14 x 49	8-425	12	144
B11620	White	3	14 x 49	8-425	12	144
03-439-61X	Natural	6	17 x 58	13-425	12	144
50-125-243	White	6	17 x 58	13-425	12	144
03-439-61Y	Natural	7	19 x 63	15-415	12	144
03-439-61P	White	7	19 x 63	15-415	12	144
03-439-61Z	Natural	15	25 x 78	15-415	12	144
50-125-244	White	15	25 x 78	15-415	12	144
125745	Natural	30	32 x 85	20-410	12	144
03-439-61R	White	30	32 x 85	20-410	12	144
ICN211635	Natural	60	39 x 101	20-410	12	144
03-439-61S	White	60	39 x 101	20-410	12	144
02-913-561	Natural	125	47 x 125	20-410	6	72
02-913-562	White	125	47 x 125	20-410	6	72

Amber Dropping Bottles with Glass Dropper

Designed to protect contents from UV rays and ideal for light-sensitive products.

- Supplied with 20-400 GPI screw cap, bulb and glass dropper assembled on the bottle
- Manufactured from soda-lime glass conforming to USP Type III and ASTM E438, Type II requirements



Part Number	Capacity (mL)	Height x OD (mm)	Case Qty
02-991A	30	102 x 31	12
02-991C	60	118 x 39	12

Amber Dropping Bottles with Plastic Dropper

Designed to protect contents from UV rays and ideal for light-sensitive products

- Supplied with 20-400 GPI screw cap, bulb and plastic dropper assembled on the bottle
- Manufactured from soda-lime glass conforming to USP Type III and ASTM E438, Type II requirements



Part Number	Capacity (mL)	Height x OD (mm)	Case Qty
02-991B	30	102 x 31	72
02-991D	60	118 x 39	12

Caraway

KIMBLE® Caraway tubes are manufactured with tapered tips for easy collection of micro blood samples.

- Designed for use with the Caraway technique
- Packed in lint-free boxes
- Ends may be sealed with clay or caps
- Heparinized tubes are evenly coated with ammonium heparin to prevent coagulation and do not interfere with sodium identification
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	ID x Length (mm)	Feature	Case Qty
22-037-526	2.6 x 75	Heparinized, Red coded	600
22-037-510	2.6 x 75	Non-heparinized, Blue coded	600

Micro-Hematocrit Capillary Tubes

KIMBLE micro-hematocrit tubes are used to measure the volume percentage of red blood cells in blood.

- Packed in plastic vials with reclosable snap-lock caps to maintain cleanliness
- Ends may be sealed by flame or sealing clay
- Heparinized capillary tubes are designed to prevent blood clotting
- Ammonium heparin does not interfere with sodium identification
- 22-037-528 and 22-037-527 are bulk quantities
- Tubes are manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	ID x Length (mm)	Feature	Case Qty
22-037-523	1.1 x 75	Heparinized, Red coded	1200
12-141-536	1.1 x 75	Heparinized, Blue coded	1200
22-037-524	1.1 x 75	Heparinized, Red coded	2400
22-037-520	1.1 x 75	Non-heparinized, Blue coded	2400
14-955-400	0.5 x 75	Heparinized, 60 mm calibration, Black coded	1200
22-037-528	1.1 x 75	Heparinized, Red coded	4252
22-037-527	1.1 x 75	Non-heparinized, Blue coded	4252

Natelson Tubes

KIMBLE Natelson tubes are manufactured with tapered tips for easy collection of micro blood samples.

- Designed for use with the Natelson technique
- Packed in lint-free boxes
- Ends may be sealed with clay or caps
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	ID x Length (mm)	Feature	Case Qty
22-037-525	1.6 x 150	Non-heparinized, Blue coded	600
22-037-521	1.6 x 150	Heparinized, Red coded	600

Cha-seal Tube Sealing Compound

Cha-seal tube sealing compound is used to seal hematocrit capillary blood collection tubes before centrifugation.

- Non-toxic
- Non-hardening
- Non-drying material
- Maintains excellent retention during centrifugation
- Light color provides a sharp contrast line with blood for easy reading



Part Number	Case Qty
22-037-522	100

A1 Yellow Color-Coded Tubes

KIMBLE blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent yellow labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-378-897	3	10 x 75	1000
22-285-751	5	12 x 75	1000

ANTI A Blue Color-Coded Tubes

KIMBLE blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent blue labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-037-274	3	10 x 75	1000
22-285-752	5	12 x 75	1000

ANTI B Yellow Color-Coded Tubes

KIMBLE brand blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent yellow labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-037-276	3	10 x 75	1000
22-285-754	5	12 x 75	1000

B Blue Color-Coded Tubes

KIMBLE brand blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent blue labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-037-275	3	10 x 75	1000
22-285-753	5	12 x 75	1000

IIS White Color-Coded Tubes

KIMBLE blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent white labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-037-278	3	10 x 75	1000
22-285-756	5	12 x 75	1000

IS Green Color-Coded Tubes

KIMBLE blood typing tubes feature a permanent ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Pre-labeled with blood type
- Convenient package quantities
- Permanent green labels placed to allow an unobstructed view of cell suspension
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
22-037-277	3	10 x 75	1000
22-285-755	5	12 x 75	1000

Wintrobe Erythrocyte Sedimentation Rate (ESR) Tubes

ESR tubes measure the rate at which red blood cells settle out of plasma.

- Use with standard or modified procedure
- Precision-drawn glass and accurate calibrations ensure that results are accurate with standard normal values
- Round-bottomed Wintrobe tubes (22-037-548) are filled with a 9" Pasteur pipet
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	ID (mm)	Length (mm)	Case Qty
22-037-548	3	115	2000
22-037-547	3	115	2000
02-681-1C	3	150	1000

Westergren Erythrocyte Sedimentation Rate (ESR) Tubes

ESR tubes measure the rate at which red blood cells settle out of plasma. KIMBLE Westergren sedimentation rate tubes may be used for the standard procedure, by drawing blood in a liquid sodium citrate vacuum tube, or the modified procedure, using a saline-diluted EDTA vacuum tube.

- Precision-drawn glass and accurate calibrations ensure that the results are accurate with the standard normal values
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements

Part Number	ID (mm)	Length (mm)	Case Qty
22-037-549	2.55	240	1000

Sedimentation Tube Racks with Leveling Bubbles and Adjustment Screws

Sedimentation tube racks hold Westergren or Wintrobe sedimentation tubes

- Sedimentation tube racks feature leveling bubbles and adjustment screws
- Tubes are held firmly in a perpendicular position to ensure accurate readings



Part Number	Feature	Case Qty
22-295-693	6-Slot	1
02-681-1G	10-Slot	1

Melting Point Capillary

KIMAX® melting point capillary tubes are used to determine the point at which a solid sample turns to liquid.

- Tubes are 100 mm long when supplied with both ends open, so that approximately 90 mm will remain after sealing
- Tube length insures that the open end will extend well above the bath's surface to prevent the bath liquid from entering the tube
- 12-141-2 and 12-141-10 have a smaller I.D. than 34500-99 and are designed from requirements contained in the United States Pharmacopeia (USP)
- Packaged with 100 tubes per vial and 20 vials per case
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	OD x Length (mm)	Feature	Case Qty
12-141-1	1.5-1.8 x 100	Open at both ends	2000
12-141-2	1.5-1.8 x 100	Open at both ends	2000
12-141-8	1.5-1.8 x 90	Sealed at one end	2000
12-141-10	1.5-1.8 x 90	Sealed at one end	2000

MICROCAPS® Disposable Capillary Tubes

Drummond Microcaps are ideal for spotting pre-adsorbent TLC plates.

- Precision-bore glass capillary tubes
- Cut to predetermined lengths, so that each capillary tube will hold a known volume of fluid when filled
- Supplied with one bulb assembly and one dispenser vial with 100 micropipets
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part Number	Capacity (μL)	Volume Tolerance (%)	Case Qty
22-037-575	0.5	±1	100
22-037-576	1	±1	100
K764500-0002	2	±1	100
K764500-0005	5	±1	100
K764500-0010	10	±1	100
K764500-0020	20	±1	100
22-037-578	25	±1	100
22-037-580	50	±1	100
K764500-0100	100	±1	100

MICROCAPS® Kit

The Microcaps "5-Pack" contains 100 micropipets each of 0.5, 1, 2, 5 and 10 μL sizes, in 5 dispenser vials.



- Drummond Microcaps are ideal for spotting preadsorbent TLC plates
- Precision-bore glass capillary tubes
- Cut to predetermined lengths, so that each capillary tube will hold a known volume of fluid when filled
- Supplied with one bulb assembly and one spotting holder
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements

Part Number	Capacity (μL)	Case Qty
K764520-0000	one each of 0.5, 1, 2, 5, 10	1

To Contain Micro Capillary Pipets

- Pipets are marked with a single black capacity ring and are color-coded for selection of the correct size
- Calibrated to contain
- Packaged in easy-open cylinders for convenient dispensing
- Each cylinder contains 250 pipets and one pipet device
- Designed from ASTM Specification E672
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	Capacity; Tolerance (μL)	Color of Coding Band	Case Qty
K71900-5	5; ±1.0	White	1,000
13-678-18A	10; ±0.5	Orange	1,000
13-678-18B	20; ±0.5	Black	1,000
22-037-550	25; ±0.5	2 White	1,000
K71900-50	50; ±0.5	Green	1,000
K71900-100	100; ±0.5	Blue	1,000

Coplin Staining Jar, 5-10 Slide Unit

- This unit holds ten 3" x 1" (75mm x 25mm) slides, back-to-back that extend above the opening so you can manipulate them without using forceps
- Polypropylene screw cap
- The screw cap is made of linerless white polypropylene to reduce solvent evaporation and spills during storage
- Cap is not intended for use with slides in jar
- The unit has a rectangular base and holds approximately 55mL
- Manufactured from soda-lime glass
- Approximate inside bottom dimensions (mm): 26 L x 26 W x 70 D



Part Number	Description	Case Qty
08-813D	Coplin Jar with PP Screw Cap	6
50-195-4051	Replacement Cap, 58-400	6

Coplin Staining Jar, 5-10 Slide Unit

- It holds five single 3" x 1" (75mm x 25mm) slides vertically, or 10 slides back to back, and holds approximately 65mL
- This popular staining jar has heavy glass walls and a broad base for increased stability
- Manufactured from soda-lime glass
- Approximate inside bottom dimensions (mm): 28 L x 26 W x 92 D



Part Number	Description	Case Qty
22-312-143	Coplin Jar with Glass Cover	6

Coplin Staining Jar, 5-10 Slide Unit

- It holds five single 3" x 1" (75mm x 25mm) slides vertically, or 10 slides back-to-back
- This unit is used for staining slides, or as a developing chamber for thin-layer chromatography
- The screw cap is made of linerless white polypropylene to reduce solvent evaporation
- The unit has a rectangular base and holds approximately 60mL
- Manufactured from soda-lime glass
- Approximate inside bottom dimensions (mm): 26 L x 26 W x 90 D



Part Number	Description	Case Qty
08-813E	Complete	6
50-195-4051	Replacement Cap, 58-400	6

Sterile Closed-System Tissue Grinders

Closed System 1 sterile tissue grinders are easy to use and designed for your safety

- Tissues are ground within a sealed container to minimize the risk of personal contact - exposure to sample aerosols is eliminated
- Narrow pestles eliminate the potential of sample overflow common with other types of grinders
- The molded-in abrasive surface on the pestle tip leaves no sediment to obstruct sample examination
- Each grinder comes with a fully assembled pestle, a conical sample tube with solid top cap, an adhesive identification label and an instruction card.
- All are gamma-sterilized in easy-open Tyvek® packs
- Tubes are made of PP, pestles are 30% glass-filled PP and caps are HDPE



Part Number	Capacity (mL)	Case Qty
K749600-0015	15	10
K749600-0050	50	10

DUALL® with All-Glass

Combines both conical and cylindrical surfaces to effectively reduce tissue and produce a uniform homogenate. Grinding efficiency is greatly improved when this tube is used.

- This ground glass model is ideal for connective tissue such as muscle, heart and lung
- Construction is strong enough to allow the pestle to be motor-driven
- Pestles are designed to be used with K788000 stirrer adapters
- Replacement components are available and completely interchangeable
- Clearance between pestles and tubes is 0.004" to 0.006"
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part Number	Working Capacity (mL)	Size	Pestle Shaft OD (mm)	Case Qty
K885450-0020	1	20	6	1
K885450-0021	3	21	6	1
K885450-0022	5	22	8	1
K885450-0023	15	23	10	1
K885450-0024	30	24	10	1
22-037-583	50	25	16	1

RNase-Free Disposable PELLET PESTLE® and Microtubes

- RNase, DNase and Pyrogen-free
- Individually wrapped to ensure purity
- Autoclavable blue polypropylene
- Pestles specially designed to match microtubes
- Can be driven by cordless motor K749540-0000



Part Number	Size (mL)	Case Qty
K749520-0090	1.5	100
K749520-0590	0.5	100

PELLET PESTLE® Cordless Motor

Resuspend protein and DNA pellets or grind soft tissues in micro centrifuge tubes.

- For all PELLET PESTLE mixers
- Complete with two AA batteries
- Operates at 2000-3000 RPM's with fresh batteries and no load



Part Number	Case Qty
K749540-0000	1

PIPET-PAL® Controller

DWK Life Sciences has a long history of providing liquid handling solutions to laboratories from research to academia. The latest addition to our offering, the WHEATON PIPET-PAL Controller, is ergonomically designed to sit comfortably in your hand and allow your fingers to keep a natural position during long hours of pipetting and dosing activities.

In addition to ergonomics, this controller is lighter, faster and provides a longer operating time. This will help you cut your work time and offer you an improved ergonomic pipetting experience.

Product Advantages

- Lightweight (195g) and well-balanced, making even prolonged pipetting very comfortable
- Quiet, robust pump for high pipetting speed
- Precise finger-control of pipetting enables accurate dispensing, even drop-by-drop
- Versatile for both fine dosing and gravimetric dispensing
- Designed for use with all serological pipettes in the volume range 1-100mL
- Eliminate contamination with a replaceable, sterile filter
- Lithium-Polymer battery technology for long operating time
- Autoclavable pipette holder for cleanliness and safety
- Supplied with a universal power supply for worldwide use
- 1 year warranty



Material Selection

Parts in contact with liquid flow are chemically inert, providing for stability and long instrument life.

Parts	Material
Body	Polyamide
Nosepiece	Polyoxymethylene
Pipette mount	Silicone
Filter Rubber	Silicone

Performance and Ordering Information

Supplied with Quick Start Guide, warranty registration card, Lithium-Polymer battery (included in the instrument), wall mount, power adapters with 4 country plugs (US/JP, EU, UK, AU) and a spare 0.45 µm sterile filter.

Part Number	Description	Case Qty
13-707-100	PIPET-PAL Controller, Translucent Blue	1
15-112-185	PIPET-PAL Wall Mount	1
15-112-184	Replacement PTFE Filters, 0.45µm, non-sterile	10
15-112-183	Replacement PTFE Filters, 0.45µm, sterile	10
15-112-186	Replacement PTFE Filters, 0.20µm, non-sterile	10
15-112-187	Replacement PTFE Filters, 0.20µm, sterile	10

*For additional spare parts, please go to www.dwk.com.

Non-Sterile Disposable Serological Pipets

- Pipets are non-plugged and non-sterile, with a uniform pulled tip
- Calibrated to deliver to the tip
- Two rings near the top indicate that the small amount remaining in the tip after free delivery has ceased must be blown out and added to the main volume delivered
- Blue scale with negative graduations to increase the versatility of the pipet
- Manufactured to ASTM E1380 for color coding
- Bulk packed in sealed plastic bags
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity; Tolerance (mL)	Graduation Intervals (mL)	Case Qty
22-037-562	1; ± 0.03	0.1	1,000
22-037-563	1; ± 0.03	0.01	1,000
22-037-564	2; ± 0.06	0.01	500
22-037-565	5; ± 0.15	0.1	500
22-037-561	10; ± 0.30	0.1	500

Sterile Disposable TD Color-Coded Serological Pipets

- Non-pyrogenic
- Pipets have a uniform pulled tip and are clean, plugged, sterile and ready for use
- Calibrated To Deliver (TD) to the tip
- Provided with "negative" graduations to increase the versatility of the pipet
- 22-037-556, -557, -558, -559, -560 are packaged in color-coded paper/plastic individual wrap and overpacked in convenient dispensing shelf packs for laboratory benches
- 13-678-250, -251, -252, -253 are packaged in a convenient recloseable canister pack containing 50 pieces sealed in a plastic bag
- Designed from ASTM Specification E714
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity; Tolerance (mL)	Graduation Intervals (mL)	Case Qty
22-037-552	1; ± 0.03	0.1	1,000
22-037-553	1; ± 0.03	0.01	1,000
22-037-554	2; ± 0.06	0.01	500
22-037-555	5; ± 0.15	0.1	500
22-037-551	10; ± 0.30	0.1	500
22-037-557	1; ± 0.03	0.1	1,000
22-037-558	1; ± 0.03	0.01	1,000
22-037-559	2; ± 0.06	0.01	500
22-037-560	5; ± 0.15	0.1	500
22-037-556	10; ± 0.30	0.1	500
13-678-250	1; ± 0.03	0.01	500
13-678-251	2; ± 0.06	0.01	500
13-678-252	5; ± 0.15	0.1	500
13-678-253	10; ± 0.30	0.1	500

Sterile Plastic Disposable Serological Pipets

These pipets are excellent for serological, tissue culture work, and mass testing.

- Calibrated To Deliver (TD)
- Sterile, non-pyrogenic, and DNase/RNase-free
- Pipets have a uniform pulled tip and are clean, plugged, sterile and ready for use
- Calibrated To Deliver (TD) to the tip
- Provided with "negative" graduations to increase versatility
- Beveled or molded top ends
- Irradiation sterilized for use with tissue culture work
- Available in re-closable multipacks



Part Number	Capacity; Tolerance (mL)	Graduation Intervals (mL)	Case Qty
13-674-40A	1; ± 0.02	0.01	1000
13-674-40	1; ± 0.02	0.1	1000
13-674-40B	2; ± 0.04	0.01	500
13-674-40C	5; ± 0.10	0.1	500
13-674-40D	10; ± 0.20	0.1	500
13-674-45	10; ± 0.20	0.1	500
13-674-40E	25; ± 0.50	0.2	200
13-674-40F	50; ± 0.75	0.5	100

Sterile Plastic Disposable Serological Pipets

These pipets are excellent for serological, tissue culture work, and mass testing.

- Calibrated To Deliver (TD)
- Sterile, non-pyrogenic, and DNase/RNase-free
- Pipets have a uniform pulled tip and are clean, plugged, sterile and ready for use
- Calibrated To Deliver (TD) to the tip
- Provided with "negative" graduations to increase versatility
- Beveled or molded top ends
- Irradiation sterilized for use with tissue culture work
- Available in canister packs



Part Number	Capacity; Tolerance (mL)	Graduation Intervals (mL)	Case Qty
13-674-44A	1; ± 0.02	0.01	500
13-674-44B	2; ± 0.04	0.01	500
13-674-44C	5; ± 0.10	0.1	500
13-674-44D	10; ± 0.20	0.1	500

Sterile Pasteur Pipets

SteriPettes are sterile, disposable Pasteur pipets.

- Gamma-irradiated to assure sterility
- Convenient 250 piece multi-pack configuration
- 10 peel packs of 25 each
- Available in both 5-3/4" and 9" lengths
- Constricted top for cotton plugging
- Available plugged or unplugged
- Designed to ASTM E732-80 specifications
- Manufactured from 90 expansion soda lime glass conforming to USP Type III requirements



Part Number	Capacity (mL)	Overall Length (in)	Feature	Case Qty
13-678-651	2	5.75	Unplugged	250
13-678-652	2	5.75	Cotton-plugged	250
13-678-653	2	9	Unplugged	250
13-678-654	2	9	Cotton-plugged	250

TLC Spotting Capillaries, MICROCAPS®

These precision-bore glass capillary tubes are cut to predetermined lengths, so that each capillary tube will hold a known volume of fluid when filled.

- Drummond Microcaps "5-Pack" (K764520) is ideal for use in spotting TLC plates.
- K764500 is supplied with one bulb assembly and one dispenser vial with 100 micropipets
- K764520 is a kit with 5 dispenser vials containing 100 micropipets each of 0.5, 1, 2, 5 and 10 μ L sizes; a bulb assembly; and a spotting holder
- Manufactured from low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I requirements



Part Number	Capacity (μ L); Tolerance (%)	Length (mm)	Case Qty
22-037-575	0.5; \pm 1	32	100
22-037-576	1; \pm 1	32	100
K764500-0002	2; \pm 1	32	100
K764500-0005	5; \pm 1	32	100
K764500-0010	10; \pm 1	41	100
K764500-0020	20; \pm 1	64	100
22-037-578	25; \pm 1	65	100
22-037-580	50; \pm 1	100	100
K764500-0100	100; \pm 1	116	100
K764520-0000	one each of 0.5, 1, 2, 5, 10		1

Disposable Pasteur Pipets

These Pasteur-type pipets are intended for one-time use in the transfer of small volumes.

- 22-037-546 and 22-037-513 are blood bank droppers which dispense 25 ± 3 drops per 1 mL of serum or red cells at 23 °C when held at a 45° angle
- 22-378-893 is a Monstr-Pette™ which has a tip ID of 1.5 mm
- 22-037-540 is a wide tip Pasteur pipet featuring a 1.6 mm tip
- 22-037-542, 22-037-543 and 22-037-518 are cotton-plugged
- Soda lime pipets are manufactured from 90 expansion soda lime glass conforming to USP Type III requirements
- Designed to ASTM E732-80 specifications
- Borosilicate pipets are manufactured from 51 expansion, low extractable borosilicate glass conforming to USP Type 1 and ASTM E438, Type 1, Class B requirements



Part Number	Overall Length (in)	Feature	Case Qty
22-037-541	5.75	Soda Lime	1000
22-037-544	9.0	Soda Lime	1000
22-037-542	5.75	Soda Lime, Cotton-plugged	1000
22-037-545	9.0	Soda Lime, Cotton-plugged	1000
22-378-893	5.75	Soda Lime, Tip ID of 1.5 mm	800
22-037-582	5.75	Borosilicate	250
K883350-0009	9.0	Borosilicate	250
22-037-514	5.75	Borosilicate	1000
22-037-515	9.0	Borosilicate	1000
22-037-540	5.75	Borosilicate, Tip ID of 1.6 mm	1000
22-037-518	5.75	Borosilicate, Cotton-plugged	1000
22-037-543	9.0	Borosilicate, Cotton-plugged	1000
22-037-546	5.75	Borosilicate, Blood bank dropper	1000
22-037-513	5.75	Soda lime blood bank dropper	1000

Pipet Rack

- 5 angled compartments
- Top 3 compartments are 3" x 3"
- Bottom 2 compartments are 3" tall x 1-3/8" wide
- Stores pipets from 1 to 100mL
- Accommodates two pipet controllers on the top
- Diameter of pipet controller holes is 7/8"
- Made from heavy-duty clear-view acrylic

Part Number	Description	Case Qty
13-678-260	Rack for Serological Pipets	1

Screw Thread Disposable Centrifuge Tubes

With conical-shaped bottoms on the 5, 10, and 15 mL sizes and a bullet-nosed shape on the 50 mL size, these tubes withstand centrifugation up to 2980 RCF.

- Tubes are plastic shrink-wrapped in modular trays for cleanliness and safety
- Closures are not supplied
- For closures see below
- Manufactured from 51 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	GPI Finish	OD x Length (mm)	Case Qty
05-5691	5	13-415	13 x 110	125
05-5692	10	15-415	16 x 114	125
05-5693	15	15-415	17 x 126	125
05-538-41A	50	24-400	29 x 137	72



Centrifuge Screw Caps

Part Number	Description	Case Qty
22-037-574	13-415 Black Phenolic Cap, Cemented White Rubber Liner	1,000
05-5694	13-415 Black Phenolic Cap, Cemented PTFE Faced, White Rubber Liner	500
05-5699	15-415 Black Phenolic Cap, Cemented White Rubber Liner	1,000
05-5695	15-415 Black Phenolic Cap, Cemented PTFE Faced, White Rubber Liner	500
03-340-14A	24-400 Black Phenolic Cap, Cemented PTFE Faced, White Rubber Liner	144
14-930-14K	15-415 Cap, Phenolic, White Rubber Liner, Cap height 16 mm	300
14-959-39	24-410 Cap, Phenolic, White Rubber Liner, Cap height 19 mm	150

Snap Cap Disposable Centrifuge Tubes

Plain, disposable centrifuge tube can withstand centrifugation up to 2980 RCF.

- Conical bottom
- The 5, 10, and 15 mL sizes have a finished top for a snap-cap closure (not supplied)
- The 50 mL size has a tooled top
- Tubes are plastic shrink wrapped in modular trays to keep them clean and safe in transit
- Manufactured from 51 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	OD x Length (mm)	Case Qty
05-538-41B	5	13 x 110	125
05-538-41C	10	16 x 114	125
05-538-41D	15	17 x 126	125
05-538-41E	50	29 x 137	72

Borosilicate Glass Tubes with 3/4" Banded Labels

These KIMBLE Mark-M™ glass culture tubes feature a permanent banded ceramic label, fused to the glass, which is easily written on with marker or pencil.

- Permanent marking spots
- Borosilicate glass tubes have excellent chemical resistance against sodium leaching
- Labels are located 3/4" from the open end and are available in a variety of colors
- All tubes have sturdy, uniform bottoms and consistent lengths
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Capacity (mL)	Color	OD x Length (mm)	Case Qty
22-037-530	3	blue	10 x 75	1000
22-037-531	3	green	10 x 75	1000
22-037-532	3	yellow	10 x 75	1000
22-037-533	3	white	10 x 75	1000
02-555-125	3	pink	10 x 75	1000
22-037-535	5	white	12 x 75	1000
02-555-126	5	pink	12 x 75	1000

Plain Disposable Borosilicate Glass Tubes

These premium quality tubes feature sturdy, uniform bottoms and consistent lengths. The 10 x 75 and 12 x 75 mm sizes are suitable for cell washing procedures.

- 51 expansion borosilicate glass offers excellent chemical resistance against sodium leaching, a factor common in soda lime glass products
- Tubes are packed in convenient trays for ease of use on bench tops and in drawers
- The 6 x 50 mm size is often referred to as a "Durham tube"
- Trays are shrink-wrapped in plastic film, with tubes remaining in constant alignment for protection against in-transit breakage and contamination
- No marking spot
- Designed from ASTM Specification E890
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	Overflow Capacity (mL)	OD x Length (mm)	Case Qty
14-957-90E	1	6 x 50	1000
033410	4	10 x 75	1000
033411	6	12 x 75	1000
03-341-3	10	13 x 100	1000
22-037-566	11	15 x 85	1000
14-961-35	13	16 x 85	1000
03-341-4	15	16 x 100	1000
033415	19	16 x 125	1000
03-341-6	23	16 x 150	1000
14-957-96J	28.5	18 x 150	500
14-957-96K	36	20 x 150	500
22-037-567	55	25 x 150	500

Plain Disposable Soda-Lime Glass Tubes

- All tubes have sturdy, uniform bottoms and consistent lengths
- No marking spot
- Manufactured from 90 expansion soda-lime glass conforming to USP Type III requirements



Part Number	Overflow Capacity (mL)	OD x Length (mm)	Case Qty
22-037-534	4	10 x 75	1000
12-141-538	6	12 x 75	1000
22-037-536	10	13 x 100	1000
14-962-11	13	16 x 75	1000
22-037-537	15	16 x 100	1000
22-037-511	19	16 x 125	1000
22-037-538	23	16 x 150	1000
22-037-539	28.5	18 x 150	500

Disposable Screw Thread Culture Tubes with Marking Spot

These culture tubes are suitable for tissue culture work and general bacteriological use.

- Round-bottomed
- Each tube has a marking area
- Modular trays are shrink-wrapped in plastic film
- Supplied without caps
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	OD x Length (mm)	GPI Finish; Capacity (mL)	Case Qty
22-037-568	13 x 100	13-415; 8	1,000
22-037-569	16 x 100	15-415; 12	1,000
22-037-570	16 x 125	15-415; 16	1,000
22-037-571	16 x 150	15-415; 20	1,000
22-037-572	20 x 125	18-415; 25	500
22-037-573	20 x 150	18-415; 30	500

KIM-KAP™ Polypropylene Closures

KIM-KAP polypropylene closures for culture tubes.

- Autoclavable
- Color coded



Part Number	Tube OD (mm)	Color	Case Qty
14-957-91	13	Natural	1,000
14-957-91A	16	Natural	1,000
14-957-91B	18	Natural	1,000
14-957-91C	20	Natural	500
14-957-91D	25	Natural	500
14-957-91E	38	Natural	250
14-957-92	13	Red	1,000
14-957-92D	16	Red	1,000
14-957-92H	18	Red	1,000
14-957-92M	20	Red	500
14-957-92R	25	Red	500
14-957-92A	13	Green	1,000
14-957-92E	16	Green	1,000
14-957-92J	18	Green	1,000
14-957-92N	20	Green	500
14-957-92S	25	Green	500
14-957-92B	13	Yellow	1,000
14-957-92F	16	Yellow	1,000
14-957-92K	18	Yellow	1,000
14-957-92P	20	Yellow	500
14-957-92T	25	Yellow	500
14-957-92C	13	Blue	1,000
14-957-92G	16	Blue	1,000
14-957-92L	18	Blue	1,000
14-957-92Q	20	Blue	500
14-957-92V	25	Blue	500



The WHEATON CryoELITE® Tissue Vial is for those who value sample integrity, designed specifically for tissue collection, transport and storage to provide the utmost protection. Different from cells and biofluids, tissue specimens have particular requirements for cryogenic storage. Offering researchers a uniform vial able to maintain sample integrity while maximizing storage capacity and organization, the CryoELITE Tissue Vials feature a wide-mouth opening, 5mL capacity and high integrity closure. The CryoELITE Tissue Vial offers researchers who work with tissue samples ease of use, convenience and security.

The CryoELITE Tissue Vials are manufactured from low binding, cryogenic-grade virgin polypropylene that meets the USP Class VI classification. Lot tested and certified to be free of pyrogens, RNase / DNase and endotoxins, the vials have a sample capacity of 5mL and a storage temperature range of -156°C to 121°C. The externally threaded cap provides a seal that exceeds DOT and IATA classifications for diagnostic specimens and their transport and is capable of maintaining a secure closure during freeze/thaw procedures. The vials have a flat bottom and a stippled external surface to promote easier handling.

CryoELITE® Tissue Vial

- Lot certified RNase/DNase and Endotoxin Free providing assurance of product integrity
- Unrivaled cap seal exceeds DOT and IATA regulations ensuring ultimate protection of samples during transportation and demanding freeze-thaw handling
- Wide mouth for insertion and removal of tissue with forceps
- 5mL volume for use with tissue sections
- Directional indicators to allow orientation of tissue within vial
- Bagged in packs of 25 vials

Part Number	Size (mL)	Color	Sterile	Dia. x H (mm)	Depth (mm)	Case Qty
13-709-140	5	White	Yes	22 x 24	18	250

CryoELITE® Technical Information

Material:	Made from low binding, cryogenic grade virgin polypropylene
Temperature Range:	-156°C to +121°C, tested to -196°C
Sterility:	Lot Certified Sterile, Radiation Sterilization
DNase & RNase Free:	Lot Certified, Ethidium Bromide (EtBr) Agarose Gel Electrophoresis Analysis
Non-Pyrogenic, Endotoxin Free:	Lot Certified < 0.500 EU/mL (Kinetic Turbidimetric LAL Method, FDA guideline)
Seal psi:	Exceeds 15 psi / 1 atmosphere / 95kPa pressure tested
IATA (International Air Transportation Association):	Can be used as a primary receptacle for the Transport of Diagnostic Specimens as outlined by the IATA Dangerous Goods Regulations, Part 6.3.5
DOT (U.S. Department of Transportation):	Exceeds U.S. DOT 49 CFR Parts 171-180 requirements for Diagnostic Specimen Packing and Transportation Requirements
Liquid Nitrogen:	Liquid phase tested / Vapor phase accepted
Autoclavable:	Recommended at +121°C, 15 psi (1 bar) for 20 minutes
Cap Pigmentation:	Cap colors were chosen to ensure no reactivity with common biological samples
2D Data Matrix Capacity:	Numeric 16 / Alphanumeric 10
2D Data Matrix Symbol Size:	Row x Column: 14 x 14
CE :	Product is CE compliant to The European <i>In Vitro</i> Diagnostic Medical Devices Directive 98/79/EC

CryoELITE® Cryogenic Vials

- Lot certified RNase / DNase and endotoxin free and non-pyrogenic providing assurance for sample integrity
- Unrivaled cap seal exceeds DOT and IATA regulations ensuring ultimate protection of samples during transportation and demanding freeze-thaw handling
- Made from low binding, cryogenic grade virgin polypropylene
- Screw cap can be easily removed with one hand

Freestanding

- Loctagon™ Vial Skirt provides stability in freestanding position and locks into CryoELITE Benchmate Rack in order to provide easy open and close with one hand
- Colored caps allow for color coding projects along with WHEATON colored freezer and storage boxes
- Optional 2D Data Matrix Bar Code Insert provides unique identifier for traceability
- Bottom format allows unrestricted view of 2D bar code for convenient automated scanning

Round Bottom

- Exacting round bottom allows for up to 17,000 MAX RCF (xG)

Part Number	Size (mL)	Color	Writing Patch	Sterile	Dia. x H (mm)	Case Qty
CryoELITE Vials, Freestanding, Internal Thread						
02-912-710	1.2	Natural	Yes	Yes	12 x 40	500
02-912-703	2	Natural	Yes	No	12 x 50	1000
02-912-704	2	Natural	No	No	12 x 50	1000
02-912-717	2	Natural	Yes	Yes	12 x 50	500
02-912-711	2	White	Yes	Yes	12 x 50	500
02-912-712	2	Red	Yes	Yes	12 x 50	500
02-912-713	2	Pink	Yes	Yes	12 x 50	500
02-912-714	2	Yellow	Yes	Yes	12 x 50	500
02-912-715	2	Green	Yes	Yes	12 x 50	500
02-912-716	2	Blue	Yes	Yes	12 x 50	500
02-912-718	3	Natural	Yes	Yes	12 x 63	500
02-912-719	4	Natural	Yes	Yes	12 x 77	500
02-912-720	5	Natural	Yes	Yes	12 x 91	500
CryoELITE Vials, Freestanding, External Thread						
03-411-400	0.5	White	Yes	Yes	12 x 49	500
02-912-727	1.2	Natural	Yes	Yes	12 x 37	500
15-112-190	1.2	White	Yes	Yes	12 x 37	500
15-112-191	1.2	Red	Yes	Yes	12 x 37	500
15-112-192	1.2	Pink	Yes	Yes	12 x 37	500
15-112-193	1.2	Yellow	Yes	Yes	12 x 37	500
15-112-194	1.2	Green	Yes	Yes	12 x 37	500
15-112-195	1.2	Blue	Yes	Yes	12 x 37	500
02-912-723	2	Natural	Yes	No	12 x 49	1000
02-912-724	2	Natural	No	No	12 x 49	1000
02-912-737	2	Natural	Yes	Yes	12 x 49	500
02-912-728	2	White	Yes	Yes	12 x 49	500
02-912-729	2	Red	Yes	Yes	12 x 49	500
02-912-730	2	Pink	Yes	Yes	12 x 49	500
02-912-731	2	Yellow	Yes	Yes	12 x 49	500
02-912-732	2	Green	Yes	Yes	12 x 49	500
02-912-733	2	Blue	Yes	Yes	12 x 49	500
02-912-734	3	Natural	Yes	Yes	12 x 63	500
02-912-735	4	Natural	Yes	Yes	12 x 78	500
02-912-736	5	Natural	Yes	Yes	12 x 93	500
CryoELITE Vials, Round Bottom, Internal Thread						
02-912-705	1.2	Natural	Yes	Yes	12 x 39	500
02-912-706	2	Natural	Yes	Yes	12 x 49	500
15-112-196	2	Natural	Yes	No	12 x 49	1000
02-912-702	2	Natural	No	No	12 x 49	1000
02-912-707	3	Natural	Yes	Yes	12 x 63	500
02-912-708	4	Natural	Yes	Yes	12 x 76	500
02-912-709	5	Natural	Yes	Yes	12 x 90	500
CryoELITE Vials, Round Bottom, External Thread						
02-912-725	1.2	Natural	Yes	Yes	12 x 35	500
02-912-726	2	Natural	Yes	Yes	12 x 49	500
02-912-721	2	Natural	Yes	No	12 x 49	1000
02-912-722	2	Natural	No	No	12 x 49	1000



Liquid Scintillation Vials

Part Number	Size (mL)	Vial Material	Cap Material	Liner Material	Cap Size	Dia. x H (mm)*	Case Qty
Caps Packaged Separately							
03-340-25Q	20	Glass	Polypropylene	Foamed Polyethylene	22-400	28 x 61	500
03-340-25R	20	Glass	Polypropylene	Metal Foil / Pulp	22-400	28 x 61	500
03-341-25B	20	Glass	Urea	Metal Foil / Cork	22-400	28 x 61	500
03-341-25S	20	Glass	Urea	Polyethylene Cone	22-400	28 x 61	500
03-341-25T	20	Glass	Polypropylene	Foamed Polyethylene	24-400	28 x 61	500
03-341-25V	20	Glass	Polypropylene	Metal Foil / Pulp	24-400	28 x 61	500
03-341-72E	20	HDPE	Polypropylene	Foamed Polyethylene	22-400	27 x 61	500
03-341-72K	20	HDPE	Polypropylene	Foamed Polyethylene	22-400	27 x 61	1000
03-341-72F	20	HDPE	Polypropylene	Metal Foil / Pulp	22-400	27 x 61	500
03-341-72L	20	HDPE	Polypropylene	Metal Foil / Pulp	22-400	27 x 61	1000
03-341-72H	20	HDPE	Polyethylene	Linerless	22-400	27 x 61	500
03-341-72N	20	HDPE	Polyethylene	Linerless	22-400	27 x 61	1000
03-341-72M	20	HDPE	Urea	Metal Foil / Cork	22-400	27 x 61	1000
03-341-72J	20	HDPE	Urea	Polyethylene Cone	22-400	27 x 61	500
03-341-72P	20	HDPE	Urea	Polyethylene Cone	22-400	27 x 61	1000
03-341-71E	20	PET	Polypropylene	Foamed Polyethylene	22-400	27 x 61	500
03-341-71B	20	PET	Polypropylene	Foamed Polyethylene	22-400	27 x 61	1000
03-341-71F	20	PET	Polypropylene	Metal Foil / Pulp	22-400	27 x 61	500
03-341-71A	20	PET	Polypropylene	Metal Foil / Pulp	22-400	27 x 61	1000
03-341-71H	20	PET	Polyethylene	Linerless	22-400	27 x 61	500
03-341-71C	20	PET	Polyethylene	Linerless	22-400	27 x 61	1000
03-341-71G	20	PET	Urea	Metal Foil / Cork	22-400	27 x 61	500
03-341-71K	20	PET	Urea	Metal Foil / Cork	22-400	27 x 61	1000
03-341-71J	20	PET	Urea	Polyethylene Cone	22-400	27 x 61	500
03-341-71D	20	PET	Urea	Polyethylene Cone	22-400	27 x 61	1000

*Measurement taken with cap attached.

33 Expansion Borosilicate Glass Vials with Unattached Black Phenolic Caps and Rubber Liners

- Clear screw thread sample vials
- Closed-top black phenolic closures with rubber liners, unattached
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Part Number	OD x Height (mm)	GPI Finish	Capacity (mL)	Case Qty
14-957-246	12 x 35	8-425	2	200
22-037-529	12 x 35	8-425	2	2,304
03-340-43	15 x 45	13-425	4	2,304
03-340-44	17 x 60	15-425	8	1,728
03-340-45	19 x 65	15-425	12	1,152
03-340-46	21 x 70	18-400	16	1,152
03-340-47	23 x 85	20-400	24	864

51 Expansion Borosilicate Glass Vials with Unattached Black Phenolic Caps and Rubber Liners

- Clear, screw thread sample vials
- Closed-top black phenolic closure with polyvinyl-faced rubber liner, unattached
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements



Part Number	OD x Height (mm)	GPI Finish	Capacity (mL)	Case Qty
03-340-1A	12 x 35	8-425	2	576
03-340-1B	15 x 45	13-425	4	72
03-340-1C	17 x 60	15-425	8	576
12-141-539	17 x 60	15-425	8	1,728
12-141-540	28 x 57	24-400	20	432
12-141-541	28 x 70	24-400	24	432
12-141-467	28 x 108	24-400	45	432

E-Z Vial® with Snap Ring 12 x 32mm

(Available in Convenience Packs)



03-340-87 03-344-89 03-344-88 03-344-90

- Snap ring vials eliminate the need for crimping and decapping tools
- Vials accept snap cap or 11mm aluminum seal
- 40% larger opening improves sample accessibility while reducing auto sampler needle damage
- Clear or amber Type I borosilicate glass

Cat. No.	Size (mL)	Description	Case Qty
E-Z Vial with Snap Ring			
03-340-87	1.8	Clear	1000
03-344-88	1.8	Clear with Writing Patch	1000
03-344-89	1.8	Amber	1000
03-344-90	1.8	Amber with Writing Patch	1000

12 x 32mm Polypropylene Vial with Insert



03-336-1 15-112-189 22-294-325

- Economical alternative to glass
- Manufactured from chemical resistant polypropylene
- Vials are packaged 100 per shelf pack and 10 packs per case
- Conical interior ensures maximum retrieval of contents without the hassle of removable inserts

Cat. No.	Insert Size (µL)	Closure Style	Closure (mm)	Case Qty
03-336-1	300	Snap / Crimp Finish	11	1000
15-112-189	500	Snap / Crimp Finish	11	1000
22-294-325	750	Snap / Crimp Finish	11	1000

Limited Volume Inserts

(For Snap Ring Vials)



03-340-103 03-340-149 03-344-91 03-337-52

- Snap ring vials eliminate the need for crimping and decapping tools
- Vials accept snap cap or 11mm aluminum seal
- 40% larger opening improves sample accessibility while reducing auto sampler needle damage
- Clear or amber Type I borosilicate glass

Cat. No.	Size (mL)	Description	Case Qty
Limited Volume Inserts (Pictured with Vial)			
03-340-103	0.10	Glass Insert with Top Spring	200
03-340-149	0.25	Glass Insert with Bottom Spring	100
03-344-91	0.25	Polypropylene Insert w/ Bottom Spring	100
03-337-52	0.35	Glass Flat Bottom Insert	1000



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