

Plastic and Glass Storage Bottles

Product Selection Guide



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A Wide Selection of Bottle Shapes, Sizes, and Materials for All Your Laboratory Needs

Corning's disposable bottles are designed for safe, secure storage of tissue culture media and sera, buffers, and other aqueous solutions. The bottles come sterile and ready to use in a wide variety of shapes, materials, sizes, and cap types.

Choose from seven styles:

- ▶ Corning® round Polystyrene (PS) low profile bottles with easy grip design for superior handling and stability
- ▶ Costar® traditional Polystyrene (PS) storage bottles with smooth sides
- ▶ Corning square Polycarbonate (PC) bottles are break resistant and autoclavable or microwavable
- ▶ Corning octagonal Polyethylene Terephthalate (PET) storage bottles
- ▶ Corning square Polyethylene Terephthalate (PET) storage bottles
- ▶ Corning Gosselin™ High Density Polyethylene (HDPE) storage bottles
- ▶ PYREX® glass storage bottles

Physical Properties of Corning Plastic Bottles

	CHEMICAL RESISTANCE		Sterilization	Thermal Durability
	Recommended	Not Recommended		
Polystyrene Bottles	Weak acids, strong alkali, alcohols	Strong acids, ketones, aliphatic, aromatic, and chlorinated hydrocarbons	Do not autoclave	80°C
Polycarbonate Bottles	Weak acids, weak alkali, alcohols	Strong acids, strong alkali, ketones, aliphatic, aromatic, and chlorinated hydrocarbons	Autoclave once	135°C
Polyethylene Terephthalate Bottles	Weak acids	Strong acids, ketones, aliphatic, aromatic, and chlorinated hydrocarbons	Do not autoclave	50°C
High Density Polyethylene Bottles/Caps	Acids, alkali, aldehydes, solvents, alcohol, oils	Aliphatic, aromatic, and chlorinated hydrocarbons, oxidizing acids	Do not autoclave	120°C



Corning easy grip round PS storage bottles



Costar round PS storage bottles



Corning square PC storage bottles



PYREX round glass storage bottles

Comparison of Corning® Plastic Storage Bottles

	Corning Easy Grip Round PS Storage Bottles	Costar® Round PS Storage Bottles	Corning Square PC Storage Bottles	Corning Square PET Storage Bottles	Corning Octagonal PET Storage Bottles	Corning Gosselin™ HDPE Storage Bottles
Bottle material	PS	PS	PC	PET	PET	HDPE
Cap color	Orange	Red	Orange	Orange	White	Red, White
Cap material (maximum temperature)	HDPE (121°C)	HDPE (121°C)	PP (140°C)	HDPE (121°C)	HDPE (121°C)	HDPE (121°C)
Autoclavable† (121°C, 15 psi, 20 mins.)	No	No	Yes, once†	No	No	No
Maximum recommended working temperature	70°C	70°C	130°C	50°C	50°C	120°C
Minimum recommended working temperature	-20°C*	-20°C*	-80°C*	-40°C*	-40°C*	-80°C*
Use with Corning vacuum filters	Recommended	Recommended	No	No	No	No
Available sizes	150 mL, 250 mL, 500 mL, and 1L	125 mL, 250 mL, 500 mL, and 1L	125 mL, 250 mL, 500 mL, and 1L	125 mL, 250 mL, 500 mL, and 1L	30 mL, 60 mL, 125 mL, 250 mL, 500 mL, and 1L	150 mL, 250 mL, 500 mL, 1L, 2L, and 2.5L
Dry heat sterilization	No	No	No	No	No	No
Maximum recommended storage temperature	64°C to 80°C	64°C to 80°C	138°C to 143°C	50°C	50°C	120°C
Freezing	-20°C	-20°C	-80°C	-40°C	-40°C	-80°C
CO ₂ gas permeability	High	High	Medium	Medium	Medium	Medium
Shatter resistance	Medium	Medium	High	High	High	High
Microwave with aqueous liquid	No	No	Yes	No	No	No
pH stability	Short	Short	Medium	Good	Good	Good

PS = Polystyrene, PC = Polycarbonate, PET = Polyethylene Terephthalate, HDPE = High Density Polyethylene, PP = Polypropylene.

†Autoclaving will reduce mechanical strength.

*Bottle performance in freezers depends on both the temperature and contents in the bottle. It is strongly recommended that a trial run be performed under actual conditions to test the suitability of the bottles for frozen storage.



Corning square PET storage bottles



Corning octagonal PET storage bottles



Corning Gosselin square HDPE storage bottles



Corning Gosselin round HDPE storage bottles

Corning® Polystyrene (PS) Storage Bottles



Corning low profile easy grip style storage bottles



Costar traditional style storage bottles

- ▶ Disposable polystyrene bottles for storage of media, buffers, and other aqueous solutions
- ▶ Corning low profile style has easy grip sides that facilitate handling
- ▶ Costar® traditional style has smooth sides
- ▶ Plug seal caps (45 mm) provide an airtight seal and help minimize the risk of contamination.
- ▶ Bottles can be used with Corning vacuum filtration systems with 45 mm neck sizes (see Accessories).
- ▶ Sterile
- ▶ Nonpyrogenic

Corning Low Profile Easy Grip Style

VWR Cat. No.	Corning Cat. No.	Volume	Neck Size (mm)	Qty/Pk	Qty/Cs
29443-026	431175	150 mL	45	2	24
28199-758	430281	250 mL	45	2	24
28199-760	430282	500 mL	45	2	24
28199-762	430518	1L	45	2	24

Costar Traditional Style

29442-870	8388	125 mL	45	1	24
29442-874	8390	250 mL	45	1	12
29442-878	8393	500 mL	45	1	12
29442-882	8396	1L	45	1	12

Accessories for PS Storage Bottles

Bottle Top Vacuum Filters

- ▶ Three sizes: 150 mL, 500 mL, and 1,000 mL
- ▶ Low liquid retention funnel design
- ▶ Prefilters must be ordered separately
- ▶ Individually packaged
- ▶ Sterile
- ▶ Nonpyrogenic



Bottle top vacuum filters

150 mL Capacity, 42 mm Square Membrane

VWR Cat. No.	Corning Cat. No.	Membrane	Volume	Neck Size (mm)	Pore Size (µm)	Qty/Cs
28199-989	430626	CA	150 mL	45	0.22	48
28199-991	430627	CA	150 mL	45	0.45	48
29442-952	431161	PES	150 mL	45	0.22	48

500 mL Capacity, 63 mm Square Membrane

29442-980	430049	NY	500 mL	45	0.20	12
29552-012	430513	CA	500 mL	45	0.22	12
28199-976	430514	CA	500 mL	45	0.45	12
29186-212	431118	PES	500 mL	45	0.22	12

1,000 mL Capacity, 79 mm Square Membrane

28199-730	430015	CA	1L	45	0.22	12
29442-978	431174	PES	1L	45	0.22	12

PES = Polyethersulfone, CA = Cellulose Acetate, NY = Nylon.

Warning: Use of vacuum-driven filters on glass or plastic bottles may cause personal injury if they implode during use. Only bottles specifically designed for these applications should be used. See Corning document CLS-CC-010 for additional precautions or contact Corning Scientific Support.

Corning® Square Polycarbonate (PC) Storage Bottles



- ▶ Strong, easier to handle, require less space (13% to 20%) on the shelf or in the autoclave
- ▶ Ideal for mixing, sampling, and storage
- ▶ More break-resistant than glass or other plastic bottles
- ▶ Linerless, 45 mm one-piece autoclavable orange GL 45 threaded polypropylene plug seal cap
- ▶ Screened white enamel graduations are easier to see than molded graduations
- ▶ Sterile
- ▶ Bottles can be autoclaved once at 121°C and 15 psi. Repeated autoclaving weakens polycarbonate and is not recommended.
- ▶ Store up to -80°C

VWR Cat. No.	Corning Cat. No.	Volume	Bottle Shape	Material	Neck Diam. (mm)	Qty/Bag	Qty/Cs
89089-722	431430	150 mL	Square	PC	45	1	24
89089-762	431431	250 mL	Square	PC	45	1	24
89089-816	431432	500 mL	Square	PC	45	1	24
89089-756	431433	1L	Square	PC	45	1	24

Accessory Caps and Septa for Square PC Bottles

Corning offers reusable GL 45 septa caps for these storage bottles with a choice of silicone septa or PTFE-faced silicone septa.



VWR Cat. No.	Corning Cat. No.	Description	Thread Finish	Qty/Cs
11310-688	1395-45HTSC	Cap, open top PBT high temperature	GL 45	10
11310-694	1395-45SS	Septa, silicone	NA	10
11310-700	1395-45TS	Septa, PTFE-faced silicone	NA	10

PBT = Polybutylene Terephthalate

Note: Most GL 45 threaded caps designed for glass storage bottles use a different sealing design and will not give a secure seal if used on these plastic bottles.

Caution: These square polycarbonate bottles should NOT be used with bottle top filter units or in other applications involving vacuum pressure, as breakage may occur. DO NOT tighten caps immediately after autoclaving as the vacuum resulting from cooling can cause breakage.

Corning Square Polyethylene Terephthalate (PET) Storage Bottles



- ▶ Good for storage of media, buffers and other aqueous solutions
- ▶ Available in four sizes: 125 mL, 250 mL, 500 mL, and 1L
- ▶ Screened white enamel graduations are easier to read than molded graduations
- ▶ Large white marking spot for easier identification
- ▶ Individually packaged bottles have Sterility Assurance Level (SAL) of 10⁻⁶
- ▶ Bottles are validated USP Class VI, noncytotoxic, and nonpyrogenic

VWR Cat. No.	Corning Cat. No.	Volume	Thread Finish	Approx. Diam. x Height (mm)	Grad. Range (mL)	Grad. Interval (mL)	Qty/Pk	Qty/Cs
89238-992	431530	125 mL	GL 45	52.5 x 106.5	50 - 125	25	12	24
89238-994	431531	250 mL	GL 45	59 x 142.5	50 - 250	25	12	24
89238-996	431532	500 mL	GL 45	77 x 176	100 - 500	50	12	24
89238-998	431533	1L	GL 45	92 x 216.5	100 - 1000	50	12	24

Corning® Octagonal Polyethylene Terephthalate (PET) Bottles

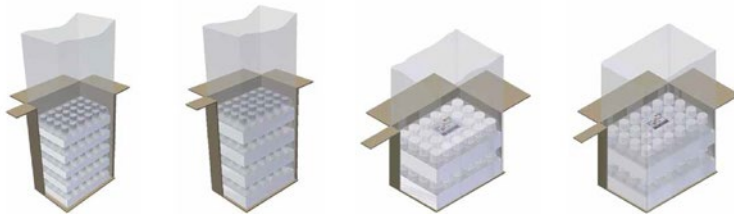


- ▶ Available in six sizes: 30 mL, 60 mL, 125 mL, 250 mL, 500 mL, and 1L
- ▶ Packaged in convenient, shrink-wrapped trays within an outer bag to ensure cleanliness
- ▶ Break-resistant bottles are an ergonomic and easy to handle alternative to glass
- ▶ Leak-proof, tamper-evident HDPE screw cap
- ▶ Molded graduations for accurate measurements
- ▶ Bottles are validated USP Class VI, noncytotoxic, nonhemolytic, and nonpyrogenic
- ▶ Bottles have Sterility Assurance Level (SAL) of 10^{-6}



Tamper-evident screw cap

VWR Cat. No.	Corning Cat. No.	Volume	Screw Cap Color	Screw Cap (mm)	Qty/Tray	Qty/Cs
89235-040	431729	30 mL	Natural	21.0	24	120
89235-042	431730	60 mL	Natural	21.0	24	96
89204-714	431731	125 mL	Natural	34.7	24	48
89204-716	431732	250 mL	Natural	34.7	24	48
89204-718	431733	500 mL	Natural	34.7	12	24
89204-720	431734	1L	Natural	34.7	12	24



Bottles are packaged in convenient, shrink-wrapped trays within an outer bag to ensure cleanliness.

Corning Gosselin™ High Density Polyethylene (HDPE) Storage Bottles



- ▶ Large neck opening provides easier access
- ▶ Ideal for storage of liquid, semi-liquid, or solid forms
- ▶ HDPE resin is lightweight and break-resistant
- ▶ Available with screw caps
- ▶ Leak-proof
- ▶ Food contact compliant
- ▶ Sterile



Square, Wide Neck

VWR Cat. No.	Corning Cat. No.	Volume	Screw Cap Color	Height (mm)	Screw Cap (mm)	Sterile	Qty/Cs
10022-312	LC150A-05	150 mL	Red	95	37.0	Yes	300
10022-310	LC250-06	250 mL	Red	109	37.0	Yes	210
10022-306	LC500-11	500 mL	Red	122	58.0	Yes	175
10022-308	LC1000-13	1L	Red	185	58.0	Yes	90
10799-436	LC2000-03	2L	Red	230	58.0	Yes	50
10799-438	LC2500A-07	2.5L	White	262.7	77.0	Yes	35

Round, Wide Neck

75800-328	LR50A-18	50 mL	Red	77	27.0	Yes	600
75800-334	LR100-12	100 mL	Red	80	37.0	Yes	335
75800-338	LR150A-14	150 mL	Red	108	37.0	Yes	250
75800-330	LR250-09	250 mL	Red	125	37.0	Yes	145
75800-332	LR500-04	500 mL	Red	136	58.0	Yes	140
75800-336	LR1000-08	1L	Red	174	58.0	Yes	68



Square bottle 1L HDPE

1395 PYREX® Bottle, Media, Storage, Screw Cap



Heavy duty bottle which can be used for storage as well as mixing and sampling. Includes linerless, one-piece autoclavable polypropylene plug seal cap with drip free pouring rings. Optional red PBT caps and red ETFE pouring rings are available for dry heat sterilization (180°C). Glass bead indicates full capacity line on 100 mL through 2L size. Bottles have permanent white enamel graduations and marking spots. Color-coded polypropylene caps are available in a choice of orange, green, purple, red, and light gray.

VWR Cat. No.	Corning Cat. No.	Approx. Capacity (mL)	Thread Finish	Approx. O.D. x Height (mm)	Grad. Range (mL)	Grad. Increment (mL)	Qty/Cs
16157-071	1395-25	25	GL 25	36.5 x 70	10-25	5	10
16157-068	1395-50	50	GL 32	46 x 88	20-50	10	10
16157-103	1395-100	100	GL 45	56 x 100	40-80	20	10
89427-656	1395-150	150	GL 45	50 x 125	62-110	25	10
16157-136	1395-250	250	GL 45	70 x 138	50-200	50	10
16157-169	1395-500	500	GL 45	86 x 176	100-400	100	10
89427-658	1395-750	750	GL 45	95 x 203	100-600	100	10
16157-191	1395-1L	1,000	GL 45	101 x 225	100-900	100	10
16157-227	1395-2L	2,000	GL 45	136 x 262	400-1800	200	10
89427-655	1395-3X	3,500	GL 45	160 x 295	500-3000	500	10
16157-250	1395-5L	5,000	GL 45	186 x 335	500-4500	500	1
16157-282	1395-10L	10,000	GL 45	234 x 410	2000-9000	1000	1

1395 PYREX Bottle, Storage, Screw Caps



VWR Cat. No.	Corning Cat. No.	Description	Thread Finish	Qty/Cs
62890-448	1395-45DC	Delivery cap, 3-hole, red, PBT	GL 45	1
89089-690	1395-32HTC	Cap, red, high temperature, with PTFE liner	GL 32	10
16157-464	1395-45HTC	Cap, red, high temperature, with PTFE liner	GL 45	10
16157-330	1395-32LTC	Cap, orange	GL 32	20
16157-409	1395-45LTC	Cap, orange	GL 45	20
16157-332	1395-32LTR	Ring, clear	GL 32	50
16157-431	1395-45LTR	Ring, clear	GL 45	50
16157-497	1395-45HTR	Pouring ring, ETFE, high temperature	GL 45	50
16157-340	1395-45LTC1	Cap, purple	GL 45	20
16157-362	1395-45LTC2	Cap, light gray	GL 45	20
16157-384	1395-45LTC3	Cap, green	GL 45	20
16157-412	1395-45LTMC	Cap, gray membrane	GL 45	10
11310-692	1395-25HTSC	Cap, open top, PBT, high temperature	GL 25	10
11310-690	1395-32HTSC	Cap, open top, PBT, high temperature	GL 32	10
11310-688	1395-45HTSC	Cap, open top, PBT, high temperature	GL 45	10
11310-698	1395-25SS	Septa, silicone	GL 25	10
11310-696	1395-32SS	Septa, silicone	GL 32	10
11310-694	1395-45SS	Septa, silicone	GL 45	10
11310-704	1395-25TS	Septa, PTFE faced silicone	GL 25	10
11310-702	1395-32TS	Septa, PTFE faced silicone	GL 32	10
11310-700	1395-45TS	Septa, PTFE faced silicone	GL 45	10

ETFE = Ethylene Tetrafluoroethylene, PBT = Polybutylene Terephthalate

Caution: Bottles larger than 2L should NOT be used with bottle top filter units, or in other applications involving vacuum pressure, as breakage may occur. DO NOT have caps tightened immediately after autoclaving, as the vacuum resulting from cooling can cause breakage. A pouring ring is not included on 25 mL size. A vented cap is NOT recommended for use on the 5L and 10L 1395 series bottle. See Corning document CLS-CC-010 for additional precautions or contact Corning Scientific Support.

1396 PYREX® Bottle, Media Storage, Screw Cap, Graduated, Square



Manufactured from PYREX borosilicate glass for chemical and thermal resistance. Square bottles are easier to handle, require less space (13% to 20%) on the shelf or in the autoclave and are ideal for mixing, sampling, and storage. Features include white enamel graduations, large marking spot and a glass ridge molded into the bottle to indicate full capacity. Includes linerless, one-piece, autoclavable, orange, polypropylene plug seal cap with drip-free pouring ring. A wide range of optional caps are available under the catalog 1395 series.

VWR Cat. No.	Corning Cat. No.	Approx. Capacity (mL)	Thread Finish	Approx. O.D. x Height (mm)	Grad. Range (mL)	Grad. Increment (mL)	Qty/Cs
11310-680	1396-100	100	GL 32	50 x 105	40-80	20	10
11310-682	1396-250	250	GL 45	64 x 138	50-200	50	10
11310-684	1396-500	500	GL 45	78 x 176	100-400	100	10
11310-686	1396-1L	1,000	GL 45	94 x 217	100-900	100	10

Caution: Do NOT have caps tightened immediately after autoclaving as the vacuum resulting from cooling can cause breakage. Not applicable for vacuum use.

1399 PYREX Slim Line Storage Bottle



Round media bottles can be used for storage as well as mixing. The indented side grips ensure easy handling. The bottles are graduated to their full working volume. The narrow profile uses less space on shelves, refrigerators, and autoclaves. The new style cap has wider knurls for a more comfortable grip. It also requires 1/3 less turns to secure a closure. Not recommended for use under vacuum.

VWR Cat. No.	Corning Cat. No.	Approx. Capacity (mL)	Approx. O.D. x Height (mm)	Thread Finish	Qty/Cs
10127-908	1399-125	125	55 x 124	GL 45	4
10127-910	1399-250	250	66 x 158	GL 45	4
10127-912	1399-500	500	78 x 193	GL 45	4
10127-914	1399-1L	1,000	93 x 253	GL 45	4

61500 PYREXPLUS® Bottle, Reagent, Narrow Mouth, Protective Coating, PYREX § Stopper



Features a protective PVC coating for longer product life and safety. Protective coating helps prevent glass from shattering and reduces spills. Autoclavable (121°C) and resistant to thermal shock. Bottle has a ground neck with a § stopper.

VWR Cat. No.	Corning Cat. No.	Description	Approx. Capacity (mL)	§ Stopper No.	Approx. O.D. x Height (mm)	Qty/Pk	Qty/Cs
16266-221	61500-125	Complete	125	19	55 x 136	6	12
16266-224	61500-250	Complete	250	19	70 x 160	1	6
89091-668	61500-500	Complete	500	24	86 x 198	1	6
89091-666	61500-1L	Complete	1,000	29	107 x 235	1	6
16266-232	61500-2L	Complete	2,000	29	133 x 282	—	1

For stopper only, order Corning Cat. No. 7575.

Warning: Do not place over direct heat or flame. Do not heat above 121°C moist heat or 110°C dry heat. Not recommended for dry heat sterilization. Will melt.

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10022-308	LC1000-13	7	16157-227	1395-2L	8	29443-026	431175	5
10022-310	LC250-06	7	16157-250	1395-5L	8	29552-012	430513	5
10022-312	LC150A-05	7	16157-282	1395-10L	8	62890-448	1395-45DC	8
10127-908	1399-125	9	16157-330	1395-32LTC	8	75800-328	LR50A-18	7
10127-910	1399-250	9	16157-332	1395-32LTR	8	75800-330	LR250-09	7
10127-912	1399-500	9	16157-340	1395-45LTC1	8	75800-332	LR500-04	7
10127-914	1399-1L	9	16157-362	1395-45LTC2	8	75800-334	LR100-12	7
10799-436	LC2000-03	7	16157-384	1395-45LTC3	8	75800-336	LR1000-08	7
10799-438	LC2500A-07	7	16157-409	1395-45LTC	8	75800-338	LR150A-14	7
11310-680	1396-100	9	16157-412	1395-45LTMC	8	89089-690	1395-32HTC	8
11310-682	1396-250	9	16157-431	1395-45LTR	8	89089-722	431430	6
11310-684	1396-500	9	16157-464	1395-45HTC	8	89089-756	431433	6
11310-686	1396-1L	9	16157-497	1395-45HTR	8	89089-762	431431	6
11310-688	1395-45HTSC	6	16266-221	61500-125	9	89089-816	431432	6
11310-688	1395-45HTSC	8	16266-224	61500-250	9	89091-666	61500-1L	9
11310-690	1395-32HTSC	8	16266-232	61500-2L	9	89091-668	61500-500	9
11310-692	1395-25HTSC	8	28199-730	430015	5	89204-714	431731	7
11310-694	1395-45SS	6	28199-758	430281	5	89204-716	431732	7
11310-694	1395-45SS	8	28199-760	430282	5	89204-718	431733	7
11310-696	1395-32SS	8	28199-762	430518	5	89204-720	431734	7
11310-698	1395-25SS	8	28199-976	430514	5	89235-040	431729	7
11310-700	1395-45TS	6	28199-989	430626	5	89235-042	431730	7
11310-700	1395-45TS	8	28199-991	430627	5	89238-992	431530	6
11310-702	1395-32TS	8	29186-212	431118	5	89238-994	431531	6
11310-704	1395-25TS	8	29442-870	8388	5	89238-996	431532	6
16157-068	1395-50	8	29442-874	8390	5	89238-998	431533	6
16157-071	1395-25	8	29442-878	8393	5	89427-655	1395-3X	8
16157-103	1395-100	8	29442-882	8396	5	89427-656	1395-150	8
16157-136	1395-250	8	29442-952	431161	5	89427-658	1395-750	8
16157-169	1395-500	8	29442-978	431174	5			

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CORNING

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