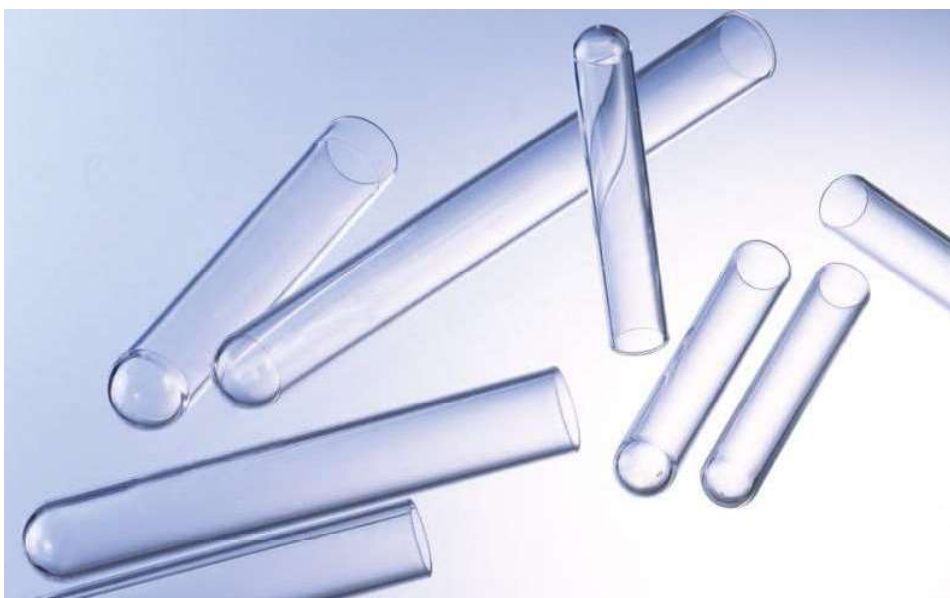


TUBES / MULTIPURPOSE BEAKERS

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Tubes / Multipurpose Beakers

Tubes without closures



- / For the max. relative centrifugal force (RCF) and the chemical/thermal resistance of our tubes please refer to the technical appendix.

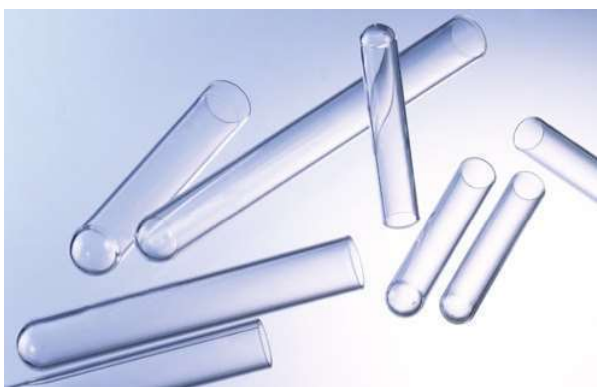
TUBES WITHOUT CLOSURES

The range of Greiner Bio-One tubes is very versatile and meets a wide variety of different demands.

Our tubes are made of different materials: **Polystyrene (PS)** is ideally suited for optical measurements as a result of its high clarity.

Polypropylene (PP) is recommended for the storage of chemical and biological samples due to its thermal, mechanical and chemical resistance. Greiner Bio-One tubes without closure are available with round bottom. In addition, it is possible to order appropriate closures in the form of grip stoppers and screw caps.

- / With round or conical bottom
- / With or without skirt
- / Available in polystyrene or polypropylene



Tube
Polystyrene

- / High transparency
- / Available in different sizes and packaging units

Raw material: PS, Bottom shape: round

Item no.	Height	Ø	Working volume	Nominal volume	Qty. inner / outer
112101	55 mm	12 mm	≤3 ml	4 ml	240 / 3,600
115101	75 mm	12 mm	≤4 ml	5 ml	250 / 2,000
136101	100 mm	14 mm	≤8 ml	10 ml	1,400 / 1,400
160101	100 mm	16 mm	≤10.5 ml	12 ml	1,600 / 1,600
187101	100 mm	17 mm	≤12 ml	14 ml	1,500 / 1,500
169101	152 mm	16 mm	≤18 ml	20 ml	1,500 / 1,500



Tube
Polypropylene

- / Suited for sample storage
- / Thermal, chemical and mechanical stability
- / Available in different sizes and packaging units

Raw material: PP, Bottom shape: round

Item no.	Height	Ø	Working volume	Nominal volume	Qty. inner / outer
112201	55 mm	12 mm	≤3 ml	4 ml	240 / 3,600
115201	75 mm	12 mm	≤4 ml	5 ml	250 / 2,000
160201	100 mm	16 mm	≤10 ml	12 ml	- / 1,600
187201	100 mm	17 mm	≤12 ml	14 ml	1,500 / 1,500

Tubes / Multipurpose Beakers

Tubes without closures



Grip Stopper

/ Made of high-grade polyethylene

Raw material: PE

Item no.	Description	Product colour	Suitable for tubes Ø	Qty. inner / outer
303321	grip stopper	○ natural	12 mm	500 / 20,000
307321	grip stopper	○ natural	14 mm	100 / 10,000
310321	grip stopper	○ natural	16 mm	100 / 8,000
318321	grip stopper	○ natural	17 mm	250 / 8,000
724170	screw cap	○ natural	61 mm	720 / 720



Tube

Polypropylene for Storage Box

/ Tubes for storage box item no. 975502

Height: 44 mm, Ø: 8.5 mm, Raw material: PP, Bottom shape: round, Working volume: ≤1 ml, Nominal volume: 1.3 ml

Item no.	Feature	Sterile	Qty. inner / outer
102201	tube		1,000 / 1,000
102261	tube chain with attached strip cap	+	- / 1,000
102270	tube chain with attached strip cap		- / 1,000



- / For the max. relative centrifugal force (RCF) and the chemical/thermal resistance of our tubes please refer to the technical appendix.



TUBES WITH CLOSURES

Greiner Bio-One tubes with closures are made of different materials: **Polystyrene (PS)** is ideally suited for optical measurements as a result of its high clarity. **Polypropylene (PP)** is recommended for the storage of chemical and biological samples due to its thermal, mechanical and chemical resistance. Greiner Bio-One tubes without

closure are available with round or with conical bottom as well as with or without skirt. They are available in sterile or non-sterile versions. The product range is completed by tubes with a two-position cap. This special cap enables ventilation or an airtight closure of the tube, depending on the position of the stopper.

Tubes / Multipurpose Beakers

Tubes with closures



Centrifuge Tube

Polypropylene - 15 ml

- / Optimal mechanical, thermal and chemical stability
- / Available with blue or white cap
- / Triple-packed options available
- / Light protection tubes for light-sensitive materials and reactions

STERILE

FREE OF
detectable
DNase

FREE OF
detectable
human DNA

FREE OF
detectable
RNase

non-
cytotoxic

non-
pyrogenic

Height: 120 mm, Ø: 17 mm, Support skirt: no, Graduation: yes, Writing field: yes, Raw material: PP,
Bottom shape: conical, Working volume: ≤14 ml, Nominal volume: 15 ml, Cap design: screw cap

Item no.	Feature	Product colour	Cap colour	Colour writing field	Graduation colour	Triple-packed	Sterile	Qty. inner / outer
188261-N		<input type="radio"/> natural	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	50 / 500
188271-N		<input type="radio"/> natural	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	50 / 1.000
188261		<input type="radio"/> natural	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	50 / 500
188271		<input type="radio"/> natural	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	100 / 1,000
188271-TRI		<input type="radio"/> natural	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue	yes	+	5 / 500
188283	light protection tube	<input checked="" type="radio"/> brown	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	50 / 500
188281		<input type="radio"/> natural	<input type="radio"/> white	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	50 / 500
188285		<input type="radio"/> natural	<input type="radio"/> white	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	100 / 700
188280	light protection tube	<input checked="" type="radio"/> brown	<input checked="" type="radio"/> blue	<input type="radio"/> white	<input checked="" type="radio"/> blue		+	100 / 1.000

/ 188261-N & 188271-N currently only available in Germany!



Centrifuge Tube
Polypropylene - 50 ml

- / Optimal mechanical, thermal and chemical stability
- / Available with blue or white cap
- / Triple-packed options available
- / Light protection tubes for light-sensitive materials and reactions

STERILE	FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	non-cytotoxic	non-pyrogenic
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Height: 115 mm, Ø: 30 mm, Graduation: yes, Writing field: yes, Raw material: PP, Bottom shape: conical, Working volume: ≤50 ml, Nominal volume: 50 ml, Cap design: screw cap

Item no.	Feature	Support skirt	Product colour	Cap colour	Colour writing field	Graduation colour	Triple-packed	Sterile	Qty. inner / outer
210261		yes	○ natural	● blue	○ white	● blue		+	25 / 450
210270		yes	○ natural	● blue	○ white	● blue		+	25 / 300
227261		no	○ natural	● blue	○ white	● blue		+	20 / 500
227270		no	○ natural	● blue	○ white	● blue		+	25 / 300
227261-TRI		no	○ natural	● blue	○ white	● blue	yes	+	5 / 250
227285		no	○ natural	○ white	○ white	● blue		+	20 / 500
227281		no	○ natural	○ white	○ white	● blue		+	25 / 300
227280	light protection tube	no	● brown	● blue	○ white	● blue		+	20 / 500
227283	light protection tube	no	● brown	● blue	○ white	● blue		+	25 / 300

Tubes / Multipurpose Beakers

Tubes with closures



CELLreactor

15 ml and 50 ml polypropylene tube with filter screw cap

- / For cultivation of suspension cells and expansion of aerobic microorganisms
- / Facilitates a high number of parallel experiments
- / Maximal sterility and excellent gas exchange
- / Conical tube design and in-tube harvest

STERILE

FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

non-cytotoxic

non-pyrogenic

Graduation: yes, Writing field: yes, Raw material: PP, Bottom shape: conical, Cap design: filter screw cap

Item no.	Height	Ø	Cap colour	Working volume	Nominal volume	Sterile	Qty. inner / outer
188241	120 mm	17 mm	● blue	1 ml - 5 ml	15 ml	+	20 / 500
227245	115 mm	30 mm	● blue	1 ml - 35 ml	50 ml	+	20 / 500

- / Application Note: Cultivation of Suspension and Hybridoma Cells in CELLSTAR® CELLreactor Tubes (F073918)
- / Application Note: Superior protein yields in suspension CHO cells using FectoPRO™-mediated transient transfection in CELLSTAR® CELLreactor (F073926)



Tubes with closures

Polystyrene

- / High transparency
- / Available with screw cap or bayonet cap in blue / black / white
- / With or without skirt
- / In bulk or rack packaging

non-cytotoxic

Raw material: PS

Item no.	Height	Ø	Support skirt	Graduation	Writing field	Bottom shape	Cap colour	Working volume	Nominal volume	Cap design	Sterile	Qty. inner / outer
164180	100 mm	16.8 mm	yes	-	no	conical	○ white	≤12 ml	12 ml	bayonet cap		1,300 / 1,300
164161	100 mm	16.8 mm	yes	-	no	conical	● blue	≤12 ml	12 ml	bayonet cap	+	25 / 1,000
163177	100 mm	17 mm	no	-	no	round	● black	≤12 ml	12 ml	screw cap		900 / 900

Item no.	Height	Ø	Support skirt	Graduation	Writing field	Bottom shape	Cap colour	Working volume	Nominal volume	Cap design	Sterile	Qty. inner / outer
188161	120 mm	17 mm	no	yes	yes	conical	● blue	≤14 ml	15 ml	screw cap	+	50 / 500
188171	120 mm	17 mm	no	yes	yes	conical	● blue	≤14 ml	15 ml	screw cap	+	100 / 1,000
186171	120 mm	17 mm	no	-	no	round	● blue	≤15 ml	15 ml	screw cap	+	100 / 1,000

/ Item no. 163177 is also available as polypropylene version with white screw cap (item no. 163270).



Tube

Two-position cap

The two-position cap enables ventilation or an airtight closure of the tube, depending on the position of the stopper.

STERILE	FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	 non-pyrogenic
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Bottom shape: round, Cap design: Two-position cap

Item no.	Height	Ø	Graduation	Writing field	Raw material	Graduation colour	Working volume	Nominal volume	Sterile	Qty. inner / outer
115261	75 mm	12 mm	yes	no	PP		≤4 ml	5 ml	+	1 / 1,000
115262	75 mm	12 mm	yes	no	PP		≤4 ml	5 ml	+	25 / 2,000
120161	75 mm	12.4 mm	-	no	PS	● blue	≤4 ml	4.5 ml	+	1 / 1,000
120180	75 mm	12.4 mm	-	no	PS	● blue	≤4 ml	4.5 ml	+	25 / 2,000
187261	95 mm	18 mm	yes	yes	PP		≤12 ml	14 ml	+	1 / 800
187262	95 mm	18 mm	yes	yes	PP		≤12 ml	14 ml	+	25 / 1,000
191161	95 mm	18 mm	-	no	PS		≤12.5 ml	14 ml	+	1 / 750
191180	95 mm	18 mm	-	no	PS		≤12.5 ml	14 ml	+	25 / 1,000



/ For further information, please refer to our website: www.gbo.com



SEPARATION TUBES

Different separation techniques can be used to enrich certain particles (DNA, RNA, proteins, cells etc.) specifically from complex biological mixtures such as cell and tissue homogenates, blood or urine, so that they can then be selectively investigated. The separation of cells by density gradient centrifugation has proven to be the most often used method.

Leucosep has been developed for optimal separation of lymphocytes and peripheral mononuclear cells (so-called PB-MCs) from human whole blood and bone marrow by means of density gradient centrifugation.

The key feature of Leucosep is the porous barrier incorporated into the centrifuge tube made of highly translucent polypropylene.

OncoQuick® is a simple-to-use, rapid and efficient system for the enrichment of circulating tumour cells that are released into the blood by a solid epithelial tumour or malignant melanoma. OncoQuick® combines the advantages of cell separation by density gradient centrifugation with recovery rates that are comparable with immunobead methods.

- / Leucosep for the separation of lymphocytes/ mononuclear cells from blood/bone marrow
- / OncoQuick® for the enrichment of disseminated, circulating tumour cells from peripheral blood

**Leucosep****12 ml and 50 ml**

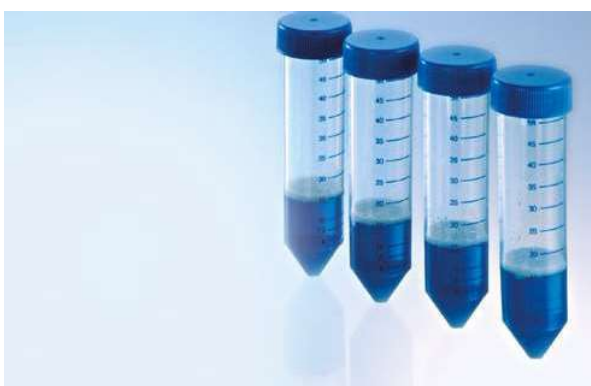
Efficient separation of lymphocytes and mononuclear cells from peripheral blood and bone marrow.

- / Easy to fill
- / No re-contamination with unwanted red blood cells
- / PBMC isolation from whole blood in 15 min

Type of sample: blood

Item no.	Separation medium	Bottom shape	Sample volume	Sterile	Qty. inner / outer
163288	pre-filled with Leucosep separation medium	round	3 - 8 ml		50 / 500
163289		round	3 - 8 ml		50 / 500
163290		round	3 - 8 ml	+	50 / 500
227288	pre-filled with Leucosep separation medium	conical	15 - 30 ml		25 / 250
227289		conical	15 - 30 ml		25 / 300
227290		conical	15 - 30 ml	+	25 / 300

/ For IFU please refer to our website: www.gbo.com

**OncoQuick®**

Enrichment of disseminated, circulating tumour cells from peripheral blood.

- / Time request approx. 45 minutes
- / Reproducible recovery: > 70 %
- / No additional laboratory equipment required
- / Tubes are pre-filled with separation medium

Sample volume: 15 - 30 ml, Type of sample: blood

Item no.	Cap colour	Qty. inner / outer
227255	● blue	1 / 1
227250	● blue	10 / 10

/ For IFU please refer to our website: www.gbo.com



- / For further information, please refer to our website: www.gbo.com



MULTIPURPOSE CONTAINERS / BEAKERS

Multipurpose containers or beakers can be used for a variety of different applications. They can be applied universally for academic and non-human medical purposes. Multipurpose containers are made of polystyrene or polypropylene and are available in different sizes. They feature either plastic or metal caps and can be supplied with or without plain or printed label.

- / Multipurpose containers in polystyrene or polypropylene
- / Polystyrene containers for plant culture
- / Polystyrene drosophila containers

Containers for plant culture are made of a very clear material which ensures maximum light transmission and thus rapid

and successful growth of plant cultures. These culture containers are not only suitable for the proliferation of plant cultures but can also be used as transport containers and are available with or without lids. Our drosophila containers are ideally suited for the cultivation of *Drosophila melanogaster*. The bottom part of the container is made of polystyrene. Drosophila containers can be supplied with a separately orderable ceaprene stopper. This stopper is gas-permeable and made of water-repellent material.



Multipurpose Containers

Polystyrene

- / Manufactured from crystal clear polystyrene
- / Available in different sizes
- / Can be used universally for academic and non-human medical purposes
- / With or without plain or printed label
- / Plastic or metal cap

Raw material: PS, Cap design: screw cap

Item no.	Feature	Height	Ø	Support skirt	Bottom shape	Cap colour	Working volume	Nominal volume	Cap material	Sterile	Qty. inner / outer
201150		91 mm	25 mm	yes	conical	○ white	≤23 ml	30 ml	plastics		400 / 400
201170		91 mm	25 mm	yes	conical	○ white	≤23 ml	30 ml	plastics	+	400 / 400
201152	with plain label	91 mm	25 mm	yes	conical	○ white	≤23 ml	30 ml	plastics		400 / 400
201172	with plain label	91 mm	25 mm	yes	conical	○ white	≤23 ml	30 ml	plastics	+	400 / 400
224170		77 mm	49 mm			● silver	≤80 ml	100 ml	metal		20 / 160
225170		115 mm	49 mm			● silver	≤150 ml	150 ml	metal		20 / 120
225180	with plain label	115 mm	49 mm			● silver	≤150 ml	150 ml	metal		20 / 120



Multipurpose Beaker

Polypropylene

- / Can be used universally for non human medical purposes
- / Optimal mechanical, thermal and chemical stability



Height: 70 mm, Ø: 55 mm, Graduation: yes, Working volume: ≤120 ml, Nominal volume: 120 ml, Cap design: screw cap

Item no.	Feature	Product colour	Cap colour	Sterile	Qty. inner / outer
724411		<input type="radio"/> natural	<input type="radio"/> white		- / 300
724412		<input type="radio"/> natural	<input type="radio"/> white	+	- / 300
724413	Tamper proof label	<input type="radio"/> natural	<input type="radio"/> white	+	- / 300
724414		<input type="radio"/> natural	<input checked="" type="radio"/> red	+	- / 300

/ Item No., lot number and expiry date are printed on the screw cap of the beaker to provide additional information and improve traceability



Containers for Plant Cultures

Polystyrene

The use of a very clear material ensures maximum light transmission and thus rapid growth. These culture containers are not only suitable for the proliferation of plant cultures but can also be used as transport containers.

Height: 100 mm, Raw material: PS

Item no.	Description	Ø	Working volume	Nominal volume	Cap design	Sterile	Qty. inner / outer
960161	container	53 mm	≤150 ml	175 ml	pull cap	+	4 / 300
968177	container, bottom part	68 mm	≤300 ml	330 ml			192 / 192
968162	container	68 mm	≤300 ml	330 ml	pull cap	+	1 / 168

/ Also available with lid as sterile version.



Drosophila Containers

- / Ideally suited for the cultivation of *Drosophila melanogaster*
- / Choice of different sizes
- / Bottom part of container made of polystyrene

Description: Drosophila Containers, Raw material: PS

Item no.	Height	Ø	Working volume	Nominal volume	Qty. inner / outer
205101	64 mm	27 mm		28 ml	1,500 / 1,500
217101	82 mm	36 mm		68 ml	605 / 605
960177	100 mm	53 mm	≤150 ml	175 ml	315 / 315

/ Can be supplied with a separately orderable ceaprene stopper. This stopper is gas-permeable and made of water-repellent material.



Ceaprene stopper

- / gas-permeable
- / made of water-repellent material

Item no.	Suitable for tubes Ø	Qty. inner / outer
323070	22 mm	- /1,500
354070	27 mm	- /1,500
330070	36 mm	- /605
332070	53 mm	- /315



For sample freezing and storage, Greiner Bio-One offers a comprehensive product portfolio including Cryo.s tubes, racks as well as electronic equipment for tube closure and sample tracking. With the brand Cryo.s Greiner Bio-One combines more than 30 years of experience in the manufacturing of cryogenic tubes with latest technology and innovation.



CRYOTECHNICS

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/ For a freezing and thawing protocol as well as safety advisory for Cryo.s please refer to the technical appendix.

CRYO.S CRYO TUBES

Cryo.s, Cryo.s with datamatrix and linear barcode and Cryo.s biobanking tubes are for storage of tissue, cells, fungi, bacteria, spores, cellular extracts or body fluids at ultra-low temperature for research and development purposes as well as in-vitro diagnostics. They must not be stored in the liquid phase of liquid nitrogen, but only in the gas phase above. Cryo.s tubes are not intended for any application in the context of reproductive medicine.

An outstanding feature of all Cryo.s is the utilisation of a USP class VI certified, medical grade polypropylene for tube manu-

facturing. This material does not release significant amounts of leachables, hence stored samples stay clean and free of contamination. Sterile product versions are sterilised applying an ISO 11137 validated irradiation procedure yielding an SAL level of 10^{-6} .

The portfolio of Cryo.s tubes includes cryogenic tubes with different volumes, different base forms as well as several cap colours. Cryo.s offer several features for the identification and labelling of individual samples, to include coloured screw caps, a white, scratch-resistant writing area and barcoding options.

- / CE-marked
- / USP class VI certified medical grade polypropylene
- / Sterilised applying an ISO 11137 validated irradiation procedure yielding an SAL level of 10^{-6}
- / Suited for storage in liquid nitrogen vapour phase (-196°C)



Cryo.s - 1 ml

- / High thermal resistance
- / Cryo.s with internal thread have a screw cap with silicone gasket
- / Cap inserts item no. 304134 (50 pieces per bag)
- / USP class VI certified medical grade polypropylene



Height: 42 mm, Ø: 12.5 mm, Starfoot: yes, Raw material: PP, Bottom shape: conical, Working volume: ≤1.2 ml, Cap design: screw cap

Item no.	Barcode	Graduation	Writing field	Cap colour	Thread type	Triple-packed	Sterile	Qty. inner / outer
123261	no	no	no	○ natural	internal		+	100 / 500
123263	no	yes	yes	○ natural	internal		+	100 / 500
123263-TRI	no	yes	yes	○ natural	internal	yes	+	10 / 200
123277	no	yes	yes	● green	internal		+	100 / 500
123278	no	yes	yes	● yellow	internal		+	100 / 500
123279	no	yes	yes	● blue	internal		+	100 / 500
123280	no	yes	yes	● red	internal		+	100 / 500

/ with 150 inserts per case



Cryo.s - 2 ml

- / High thermal resistance
- / Cryo.s with internal thread have a screw cap with silicone gasket
- / Cap inserts item no. 304134 (50 pieces per bag)
- / USP class VI certified medical grade polypropylene



Raw material: PP, Bottom shape: round, Cap design: screw cap

Item no.	Height	Ø	Star-foot	Bar-code	Graduation	Writing field	Cap colour	Working volume	Thread type	Tri-ple-packed	Sterile	Qty. inner / outer
121261	48 mm	12.5 mm	no	no	-	no	○ natural	≤2 ml	internal		+	100 / 500

Item no.	Height	Ø	Star-foot	Bar-code	Graduation	Writing field	Cap colour	Working volume	Thread type	Tri-ple-packed	Sterile	Qty. inner / outer
121263	48 mm	12.5 mm	no	no	yes	yes	○ natural	≤2 ml	internal		+	100 / 500
121277	48 mm	12.5 mm	no	no	yes	yes	● green	≤2 ml	internal		+	100 / 500
121278	48 mm	12.5 mm	no	no	yes	yes	● yellow	≤2 ml	internal		+	100 / 500
121279	48 mm	12.5 mm	no	no	yes	yes	● blue	≤2 ml	internal		+	100 / 500
121280	48 mm	12.5 mm	no	no	yes	yes	● red	≤2 ml	internal		+	100 / 500
122261	48 mm	12.5 mm	yes	no	-	no	○ natural	≤2 ml	internal		+	100 / 500
122263	48 mm	12.5 mm	yes	no	yes	yes	○ natural	≤2 ml	internal		+	100 / 500
122263-TRI	48 mm	12.5 mm	yes	no	yes	yes	○ natural	≤2 ml	internal	yes	+	10 / 200
122277	48 mm	12.5 mm	yes	no	yes	yes	● green	≤2 ml	internal		+	100 / 500
122278	48 mm	12.5 mm	yes	no	yes	yes	● yellow	≤2 ml	internal		+	100 / 500
122279	48 mm	12.5 mm	yes	no	yes	yes	● blue	≤2 ml	internal		+	100 / 500
122280	48 mm	12.5 mm	yes	no	yes	yes	● red	≤2 ml	internal		+	100 / 500
126261	47 mm	12.4 mm	yes	no	-	no	○ natural	≤2.2 ml	external		+	100 / 500
126263	47 mm	12.4 mm	yes	no	yes	yes	○ natural	≤2.2 ml	external		+	100 / 500
126263-TRI	47 mm	12.4 mm	yes	no	yes	yes	○ natural	≤2.2 ml	external	yes	+	10 / 200
126277	47 mm	12.4 mm	yes	no	yes	yes	● green	≤2.2 ml	external		+	100 / 500
126278	47 mm	12.4 mm	yes	no	yes	yes	● yellow	≤2.2 ml	external		+	100 / 500
126279	47 mm	12.4 mm	yes	no	yes	yes	● blue	≤2.2 ml	external		+	100 / 500
126280	47 mm	12.4 mm	yes	no	yes	yes	● red	≤2.2 ml	external		+	100 / 500

/ with 150 inserts per case



Cryo.s - 4 ml

- / High thermal resistance
- / Cap inserts item no. 304134 (50 pieces per bag)
- / USP class VI certified medical grade polypropylene

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Description: Cryo.s 4 ml, Height: 83 mm, Ø: 12.4 mm, Starfoot: yes, Raw material: PP, Bottom shape: round, Working volume: ≤4 ml, Cap design: screw cap

Item no.	Barcode	Graduation	Writing field	Cap colour	Thread type	Sterile	Qty. inner / outer
127261	no	no	no	○ natural	external	+	50 / 300
127263	no	yes	yes	○ natural	external	+	50 / 300
127277	no	yes	yes	● green	external	+	50 / 300
127278	no	yes	yes	● yellow	external	+	50 / 300
127279	no	yes	yes	● blue	external	+	50 / 300
127280	no	yes	yes	● red	external	+	50 / 300

/ with 100 inserts per case



Cryo.s - 5 ml

- / High thermal resistance
- / Cryo.s with internal thread have a screw cap with silicone gasket
- / Cap inserts item no. 304134 (50 pieces per bag)
- / USP class VI certified medical grade polypropylene

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Description: Cryo.s 5 ml, Height: 86 mm, Ø: 12.5 mm, Starfoot: no, Raw material: PP, Bottom shape: round, Working volume: ≤4.5 ml, Cap design: screw cap

Item no.	Barcode	Graduation	Writing field	Cap colour	Thread type	Sterile	Qty. inner / outer
124261	no	-	no	○ natural	internal	+	50 / 300
124263	no	yes	yes	○ natural	internal	+	50 / 300

Item no.	Barcode	Graduation	Writing field	Cap colour	Thread type	Sterile	Qty. inner / outer
124273	no	yes	yes	● red	internal	+	50 / 300
124275	no	yes	yes	● green	internal	+	50 / 300
124276	no	yes	yes	● yellow	internal	+	50 / 300
124274	no	yes	yes	● blue	internal	+	50 / 300

/ with 100 inserts per case



Support Rack

- / Suitable for Cryo.s with starfoot base (Item No. 122XXX, 123XXX, 126XXX, 127XXX)
- / Improved handling since the tubes can be opened with one hand
- / Rubber base to prevent slipping
- / Offers space for up to 40 Cryo.s

Description: support rack for one-hand operation, Height: 22 mm, Length: 200 mm, Width: 100 mm, Raw material: PC

Item no.	Rack colour	Qty. inner / outer
802501	● blue	1 / 50



Cryo storage box

The box material polypropylene is very temperature and shock resistant, thus allowing storage temperatures as low as -90 °C.

- / Holds 81 Cryo.s sample tubes
- / Transparent lid for optimum visibility of box content

Description: Cryo storage box, Height: 51 mm, Length: 126.5 mm, Width: 126.5 mm, Raw material: PP

Item no.	Rack colour	Qty. inner / outer
802202	○ natural	5 / 20
802203	● red	5 / 20
802204	● blue	5 / 20
802206	● yellow	5 / 20
802225	● green	5 / 20

/ The indicated height refers to the Cryo Storage Box filled with 2 ml Cryo.s and covered with a lid.



/ For further information, please refer to our website: www.gbo.com



CRYO.S WITH BARCODE

Cryo.s, Cryo.s with datamatrix and linear barcode and Cryo.s biobanking tubes are for storage of tissue, cells, fungi, bacteria, spores, cellular extracts or body fluids at ultra-low temperature for research and development purposes as well as in-vitro diagnostics. They must not be stored in the liquid phase of liquid nitrogen, but only in the

gas phase above. Cryo.s tubes are not intended for any application in the context of reproductive medicine.

With Cryo.s with Datamatrix and the accessory racks in 48-way and 81-way formats, Greiner Bio-One expands its portfolio by optimum solutions for semi-automated and automated sample handling and storage.

- / Datamatrix code ECC200 on the tube bottom with reliable Reed-Solomon error correction
- / Linear barcode type 128 with plain text on the tube side
- / Application of barcodes and datamatrix codes by means of innovative laser technology
- / 100 % controlled code readability
- / Suited for storage in liquid nitrogen vapour phase (-196 °C)
- / Coded tubes are suitable for airfreight (IATA conformity)



Cryo.s with Barcode

– Preproduced unique codes

- / Pre-produced unique datamatrix code ECC 200 with 14 x 14 dots on tube bottom, additional linear barcode type 128 with human readable text on tube side
- / Highest code resistance against chemicals, mechanical stress and extremely low storage temperatures (down to -196 °C)

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Starfoot: yes, Barcode type: linear barcode and datamatrix code, Raw material: PP, Cap design: screw cap

Item no.	Height	Ø	Barcode	Bottom shape	Cap colour	Working volume	Thread type	Sterile	Qty. inner / outer
123263-2DG	42 mm	12.5 mm	yes	conical		≤1.2 ml	internal	+	100 / 500
122263-2DG	48 mm	12.5 mm	yes	round		≤2 ml	internal	+	100 / 500
126263-2DG	47 mm	12.4 mm	yes	round		≤2.2 ml	external	+	100 / 500
127263-2DG	83 mm	12.4 mm	yes	round		≤4 ml	external	+	50 / 300

/ Other screw cap colours on request.



Cryo.s with Barcode

– Customised Codes

- / Customised datamatrix code ECC 200 with 14 x 14 dots on tube bottom, additional customised linear barcode type 128 with human readable text on tube side
- / Highest code resistance against chemicals, mechanical stress and extremely low storage temperatures (down to -196 °C)

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Raw material: PP, Cap design: screw cap

Item no.	Height	Ø	Star-foot	Bar-code	Barcode type	Bottom shape	Cap colour	Working volume	Nominal volume	Thread type	Sterile	Qty. inner / outer
123263-2D3	42 mm	12.5 mm	yes	yes	linear barcode and datamatrix code	conical		≤1.2 ml	1 ml	internal	+	100 / 500

Item no.	Height	Ø	Star-foot	Bar-code	Barcode type	Bottom shape	Cap colour	Working volume	Nominal volume	Thread type	Sterile	Qty. inner / outer
122263-2D3	48 mm	12.5 mm	yes	yes	linear barcode and datamatrix code	round	○ natural	≤2 ml	2 ml	internal	+	100 / 500
126263-2D1	47 mm	12.4 mm	yes	yes	linear barcode and datamatrix code	round	○ natural	≤2.2 ml	2 ml	external	+	100 / 500
121263-128	48 mm	12.5 mm	no	yes	linear barcode	round	○ natural	≤2 ml	2 ml	internal	+	100 / 500
127263-2D1	83 mm	12.4 mm	yes	yes	linear barcode and datamatrix code	round	○ natural	≤4 ml	4 ml	external	+	50 / 300
124263-128	86 mm	12.5 mm	no	yes	linear barcode	round	○ natural	≤4.5 ml	5 ml	internal	+	50 / 300

/ Other screw cap colours on request.

/ Barcodes to be specified in order form F071004.



48-way Datamatrix Cryo Rack

- / SLAS-standard format
- / Automation compatible
- / Suitable for storage in vapour phase above liquid nitrogen
- / Barcoded versions on request

Length: 85.5 mm, Width: 127.8 mm, Raw material: PP

Item no.	Description	Height	Rack colour	Lid type	Suitable for Cryo.s	Qty. inner / outer
803277	low rack	30 mm	● black	without lid	1 / 2 / 4 / 5 ml	5 / 20
803202	low rack	52.5 mm	● black	with lid	1 / 2 ml	- / 20
803270	high rack	88.5 mm	● black	with lid	4 ml	- / 15



81-way Datamatrix Cryo Rack

- / Shock-proof and temperature-resistant polycarbonate
- / Stacking feature and rotation stoppers
- / 133 x 133 mm footprint for storage in classic freezer setups
- / Suitable for storage in vapour phase above liquid nitrogen
- / Barcoded versions on request

Length: 132.4 mm, Width: 132.4 mm, Raw material: PC, Lid type: with lid

Item no.	Description	Height	Rack colour	Suitable for Cryo.s	Qty. inner / outer
802576	low rack	52 mm	● black	1 / 2 ml	1 / 10
802506	high rack	88.1 mm	● black	4 ml	1 / 10



- / Forum No. 21:
Sample Storage Tubes
as Quality-Critical
Components in Bio-
banking (F073072)
- / Watch our video:



CRYO.S BIOBANKING TUBES

With Cryo.s biobanking tubes, Greiner Bio-One offers an ideal solution for the efficient storage of biological samples in large-scale biorepositories.

Cryo.s biobanking tubes are available with working volumes of 235 µl, 580 µl and 975 µl and offered in highly automation-friendly 96-way racks. The innovative design of tubes and racks allows for a very space-efficient storage with up to 30 % better utilisation of storage space in freezers or liquid nitrogen tanks.

Cryo.s, Cryo.s with datamatrix and linear barcode and Cryo.s biobanking tubes are for storage of tissue, cells, fungi, bacteria, spores, cellular extracts or body fluids at ultra-low temperature for research and development purposes as well as in-vitro diagnostics. They must not be stored in the liquid phase of liquid nitrogen, but only in the gas phase above. Cryo.s tubes are not intended for any application in the context of reproductive medicine.

- / Application of barcodes and datamatrix codes by means of innovative laser technology
- / 100 % controlled code readability
- / Coded tubes are suitable for airfreight (IATA conformity)
- / Suited for storage at -20 °C, -80 °C and in vapour phase above liquid nitrogen



Cryo.s Biobanking Tubes

300 µl

- / Pre-produced unique datamatrix code on tube, datamatrix code and linear barcode on rack
- / Height-reduced screw cap conserving up to 30 % freezer space
- / Customised code sequences on request (order form F071003)

		FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	non-cytotoxic	non-pyrogenic
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Height: 18.7 mm, Total rack height: 21.6 mm, Ø: 8.8 mm, Barcode type: datamatrix code, Raw material: PP, Working volume: ≤235 µl

Item no.	Barcode	Cap colour	Cap design	Thread type	Type of packaging	Sterile	Qty. inner / outer
976570	yes		without screw cap	internal	rack		480 / 960
976580	yes	○ natural	screw cap	internal	rack		480 / 960
976561	yes	○ natural	screw cap	internal	rack	+	480 / 960
976586	yes	● green	screw cap	internal	rack		480 / 960
976566	yes	● green	screw cap	internal	rack	+	480 / 960
976585	yes	● yellow	screw cap	internal	rack		480 / 960
976565	yes	● yellow	screw cap	internal	rack	+	480 / 960
976584	yes	● blue	screw cap	internal	rack		480 / 960
976564	yes	● blue	screw cap	internal	rack	+	480 / 960
976583	yes	● red	screw cap	internal	rack		480 / 960
976563	yes	● red	screw cap	internal	rack	+	480 / 960
976588	yes	● pink	screw cap	internal	rack		480 / 960
976568	yes	● pink	screw cap	internal	rack	+	480 / 960
976589	yes	● brown	screw cap	internal	rack		480 / 960
976569	yes	● brown	screw cap	internal	rack	+	480 / 960
976587	yes	● black	screw cap	internal	rack		480 / 960
976567	yes	● black	screw cap	internal	rack	+	480 / 960
131202	yes	○ natural	screw cap	internal	bulk		480 / 960
131263	yes	○ natural	screw cap	internal	bulk	+	480 / 960

- / Follow the instructions of use provided within each box.
- / USP class VI certified medical grade polypropylene



Cryo.s Biobanking Tubes

600 µl

- / Pre-produced unique datamatrix code on tube, datamatrix code and linear barcode on rack
- / Height-reduced screw cap conserving up to 30 % freezer space
- / Customised code sequences on request (order form F071003)



Height: 33.3 mm, Total rack height: 36.2 mm, Ø: 8.8 mm, Barcode type: datamatrix code, Raw material: PP, Working volume: ≤580 µl

Item no.	Barcode	Cap colour	Cap design	Thread type	Type of packaging	Sterile	Qty. inner / outer
977570	yes		without screw cap	internal	rack		192 / 960
977580	yes	○ natural	screw cap	internal	rack		192 / 960
977561	yes	○ natural	screw cap	internal	rack	+	192 / 960
977586	yes	● green	screw cap	internal	rack		192 / 960
977566	yes	● green	screw cap	internal	rack	+	192 / 960
977585	yes	● yellow	screw cap	internal	rack		192 / 960
977565	yes	● yellow	screw cap	internal	rack	+	192 / 960
977584	yes	● blue	screw cap	internal	rack		192 / 960
977564	yes	● blue	screw cap	internal	rack	+	192 / 960
977583	yes	● red	screw cap	internal	rack		192 / 960
977563	yes	● red	screw cap	internal	rack	+	192 / 960
977588	yes	● pink	screw cap	internal	rack		192 / 960
977568	yes	● pink	screw cap	internal	rack	+	192 / 960
977589	yes	● brown	screw cap	internal	rack		192 / 960
977569	yes	● brown	screw cap	internal	rack	+	192 / 960
977587	yes	● black	screw cap	internal	rack		192 / 960
977567	yes	● black	screw cap	internal	rack	+	192 / 960
132202	yes	○ natural	screw cap	internal	bulk		192 / 960
132263	yes	○ natural	screw cap	internal	bulk	+	192 / 960

- / Follow the instructions of use provided within each box.
- / USP class VI certified medical grade polypropylene



Cryo.s Biobanking Tubes

1000 µl

- / Pre-produced unique datamatrix code on tube, datamatrix code and linear barcode on rack
- / Height-reduced screw cap conserving up to 30 % freezer space
- / Customised code sequences on request (order form F071003)
- / USP class VI certified medical grade polypropylene

		FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	non-cytotoxic	non-pyrogenic
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Height: 50.8 mm, Total rack height: 53.9 mm, Ø: 8.8 mm, Barcode type: datamatrix code, Raw material: PP, Working volume: ≤975 µl

Item no.	Barcode	Cap colour	Cap design	Thread type	Type of packaging	Sterile	Qty. inner / outer
978570	yes		without screw cap	internal	rack		192 / 960
978580	yes	○ natural	screw cap	internal	rack		192 / 960
978561	yes	○ natural	screw cap	internal	rack	+	192 / 960
978586	yes	● green	screw cap	internal	rack		192 / 960
978566	yes	● green	screw cap	internal	rack	+	192 / 960
978585	yes	● yellow	screw cap	internal	rack		192 / 960
978565	yes	● yellow	screw cap	internal	rack	+	192 / 960
978584	yes	● blue	screw cap	internal	rack		192 / 960
978564	yes	● blue	screw cap	internal	rack	+	192 / 960
978583	yes	● red	screw cap	internal	rack		192 / 960
978563	yes	● red	screw cap	internal	rack	+	192 / 960
978588	yes	● pink	screw cap	internal	rack		192 / 960
978568	yes	● pink	screw cap	internal	rack	+	192 / 960
978589	yes	● brown	screw cap	internal	rack		192 / 960
978569	yes	● brown	screw cap	internal	rack	+	192 / 960
978587	yes	● black	screw cap	internal	rack		192 / 960
978567	yes	● black	screw cap	internal	rack	+	192 / 960
133202	yes	○ natural	screw cap	internal	bulk		192 / 960
133263	yes	○ natural	screw cap	internal	bulk	+	192 / 960

- / Follow the instructions of use provided within each box.
- / USP class VI certified medical grade polypropylene



Screw Caps
Biobanking Tubes

- / 96 screw caps in cap carrier
- / Non-sterile

		FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	non-cytotoxic	non-pyrogenic
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Description: 96 screw caps in cap carrier, Raw material: PP, Cap design: screw cap

Item no.	Barcode	Cap colour	Qty. inner / outer
385270	no	○ natural	960 / 960
385276	no	● green	960 / 960
385275	no	● yellow	960 / 960
385274	no	● blue	960 / 960
385273	no	● red	960 / 960
385278	no	● pink	960 / 960
385279	no	● brown	960 / 960
385277	no	● black	960 / 960

96-way Datamatrix Cryo Rack



- / Pre-produced unique datamatrix code ECC 200 and linear barcode type 128
- / Made from polycarbonate

		FREE OF detectable DNase	FREE OF detectable human DNA	FREE OF detectable RNase	non-cytotoxic	non-pyrogenic
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Barcode type: linear barcode and datamatrix code, Raw material: PC

Item no.	Height	Barcode	Rack colour	Suitable for Cryo.s	Qty. inner / outer
976501	19.1 mm	yes	● black	300 µl	5 / 10
977501	33.7 mm	yes	● black	600 µl	2 / 10
978501	51.4 mm	yes	● black	1000 µl	2 / 10



Cryo.s Decapper

The new Cryo.s Decapper enables the precise simultaneous de- and recapping of cryotubes.

- / Individual motors for precise application of defined torque values
- / 6 channel version for 1, 2 and 4 ml Cryo.s in 48 way cryo racks
- / 8 channel version for Cryo.s Biobanking Tubes
- / Docking station with charging function included

Description: Cryo.s 8-channel handheld decapper, Content kit: 1 Decapper, Power supply unit, Docking station with charging function, Quick start guide

Item no.	Qty. inner / outer
852070	1 / 1



Cryo.s Rack Scanner

With the Cryo.s rack scanner, Greiner Bio-One provides an optimum solution for scanning Cryo.s with datamatrix and Cryo.s biobanking tubes in SLAS-standard formatted racks.

- / Single tube scan feature
- / Small footprint
- / 5 year warranty

Height: 7 cm, Length: 31 cm, Width: 19.5 cm, Content kit: 1 scanner, power cable, USB cable, driver, user manual

Item no.	Description	Qty. inner / outer
849070	rack scanner EU/UK/Asia edition	1 / 1
849050	rack scanner US edition	1 / 1

