

Screw Cap Micro Tubes

Transport, storage and sample preparation



Screw cap micro tubes

When SARSTEDT introduced the screw cap micro tube about 40 years ago, it established a new worldwide laboratory standard. These tubes are now indispensable in modern research and diagnostics.

The exceptionally secure screw cap with O-ring seal in conjunction with the robust polypropylene tube makes the screw cap micro tube a versatile piece of equipment.

They are ideal for centrifugation, transport, and storage of high-quality oligonucleotides, enzymes, and buffers.

With filling volumes of 0.5 ml to 2.0 ml, a range of configurations and sealing options, and four high quality purity grades, SARSTEDT screw cap micro tubes meet all of your micro volume requirements.

Your Sarstedt Team

SARSTEDT quality seal for laboratory products

Clean room conditions, skilled personnel in protective clothing, and automatic production processes are the prerequisites for the certified SARSTEDT quality standards 'PCR Performance Tested' and 'Biosphere® plus'.

Since 1995 we have offered our customers product qualities tailored to their needs and for the highest level of reproducibility in their analyses. Our certifications are continually adjusted to meet research requirements. The Biosphere® plus quality standard ensures no false-positive

results in DNA analysis and in forensic and diagnostics. Our PCR Performance Tested quality items are particularly suitable for the storage of PCR reagents, buffers, and plasmids.

Routine testing by an independent laboratory confirms that the extremely low threshold limit values are upheld. Corresponding certifications can be found on our website for each batch.

PCR Performance Tested quality • The SARSTEDT quality and purity standard



'PCR Performance Tested' was specifically created for labwork with nucleic acids (e.g. gPCR, PCR, purification, and storage). This quality classification provides assurance that SARSTEDT consumables can be used directly in nucleic acid analytics.

PCR Performance Tested - items meet the following purity criteria, which are certified by an independent laboratory:

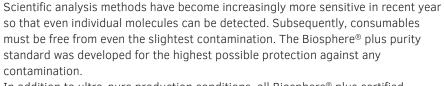
> DNA-free > Free from DNase and RNase > PCR inhibitor-free

We guarantee compliance with the following limit values:

Human DNA <0.5 pg/μl · Bacterial DNA <0.02 pg/μl · DNase <1x10⁻⁵ U/μl RNase <1x10⁻⁹ Kunitz units/µl

Subject to technical modifications.

Biosphere® plus quality • Added assurance



In addition to ultra-pure production conditions, all Biosphere® plus certified products undergo a validated decontamination procedure to ensure limit values significantly lower than our PCR Performance Tested quality. Biosphere® plus items are also free from ATP and are pyrogen-free/endotoxin-free and sterile in accordance with ISO 11135.



Biosphere® **plus** - items meet the following purity criteria, which are certified by an independent laboratory:

> Sterile > DNA-free > Free from DNase and RNase > PCR inhibitor-free > ATP-free > pyrogen-free/endotoxin-free

We guarantee compliance with the following limit values:

Human DNA <0.5 fg/ μ l · Bacterial DNA <0.2 fg/ μ l · DNase <5x10⁻⁷ U/ μ l RNase <5x10⁻¹¹ Kunitz units/µl · ATP <1x10⁻¹² mmol/µl · Pyrogens <0.002 EU/ml Sterility validated according to ISO 11135

Subject to technical modifications.

Versatile for routine work and research



Three volumes – universal application

Available in three different volumes and with clearly printed graduations, SARSTEDT screw cap micro tubes are ideal for filling requirements from a few microliters up to 2 milliliters. While 0.5 ml screw cap micro tubes reduce sample loss caused by evaporation, 2.0 ml vessels are ideal for storing buffers, loading solutions, media, or other higher volume reagents. Thanks to their compact dimensions, they can also be used in microcentrifuges and are compatible with most racks and storage systems.

Secure closure - maximum reliability

The precise thread and the flexible O-ring ensure exceptionally secure sealing of our screw cap micro tubes. They are therefore suitable for use with radioactive, infectious and expensive substances, as a reaction vessel under thermal load, or for long-term storage.





Practical knurls - easy handling

The coordinated system of tubes with circumference knurls and matching gripper racks with notched apertures allows for one-handed cap assembly and removal. This convenient handling is particularly useful in applications where contact with the sample is not permitted, as with infectious or radioactive substances.

Color coding - individual identification

Screw caps and loop cap inserts in different colors offer a wide range of color-coding organization options for the allocation of reagents in routine applications, kits, and storage.





Top product features:

- Caps and tubes made from the same robust polypropylene streamlined validation
- Centrifugation up to 20,000 x g (tested at 20°C for 20 minutes in a fixed-angle rotor, filled at nominal volume)
- Autoclavable screw cap micro tubes and caps can be autoclaved at 121°C
- Leak-resistant according to ADR & IATA all screw cap micro tubes are tested at a vacuum of 0.95 bar
- Stable skirted base free-standing on the laboratory bench without a rack
- Circumference knurls one-handed cap handling when locked into the corresponding gripper rack

Due to diverse applications and customer-specific requirements for analysis or filling, SARSTEDT offers a wide range of tube and cap variations.

- With print the large writing block allows for clear labeling, the graduations facilitate rapid volume estimation
- Without print the transparent polypropylene facilities precise sample inspection
- Without knurls the large area is ideal for adhesive labels
- Small packaging units Biosphere® plus quality screw cap micro tubes are packaged 25 pieces per practical bag and 250 pieces per compact case
- Attached loop cap the retaining loop cap ensures the safe allocation of the lid to the tube during use, eliminating cap mix-ups

Low binding screw cap micro tubes – minimal sample loss

As the trend continues towards smaller volumes, it is increasingly important to minimize any interactions between the analytes and the tubes used. SARSTEDT has therefore developed screw cap micro tubes and reaction tubes that ensure a maximum recovery rate and are specially optimized for the requirements of protein and DNA analytics. Minimizing sample loss – especially for costly and valuable reagents – is essential to reduce costs, achieve accurate analysis results, and ensure secure storage over a long period of time. Special high-quality plastics are used for SARSTEDT low binding vessels. A repellent coating, for example with silicone,

which could falsify the analyses is not necessary due to the special materials.

Advantages of the low binding screw cap micro tubes:

- Special polypropylene minimal binding, maximum recovery, minimal loss
- Certified PCR Performance Tested quality DNA, DNase/ Rnase and PCR inhibitor free
- Practical, small packaging units 100 pieces in a minigrip bag for reduced contamination risk

Low DNA binding – minimal DNA loss

Low DNA binding screw cap micro tubes are suitable for all applications where DNA is used. For example, they can be used for the storage of plasmids, oligonucleotides or cell extracts and allow for maximum DNA yield, even after long storage times and at the smallest volumes.

Low protein binding – minimal protein loss

Low protein binding screw cap micro tubes are particularly suitable for the storage, filling, and analysis of antibodies, enzymes, and other valuable substances both in the field of proteomics and in many other routine applications. Low protein binding to the vessel wall ensures maximum recovery, improved analysis, and clearer results.

Ordering information – Low binding screw cap micro tubes

Low-binding	Volume	Packaging: bag/inner box/case	Order no.
Protein	1.5 ml	100/500/1,000	72.703.600
DNA	1.5 ml	100/500/1,000	72.703.700
Protein	2.0 ml	100/500/1,000	72.694.600
DNA	2.0 ml	100/500/1,000	72.694.700









Screw cap micro tubes

Screw cap micro tubes without print

Screw cap micro tubes without print allow for accurate visual inspection of the sample through the transparent polypropylene. Options without knurls are particularly suitable for affixing adhesive labels.

Ordering information – Screw cap micro tubes without print – 0.5 ml							
Purity/version		1 Skirted base with knurls	2 Conical base with knurls	3 Skirted base without knurls	Packaging: bag/case		
1 2 3	sterile*		72.730.105			100 / 1,000	
		sterile*		72.730.305		72.785.005	100 / 1,000
		_		72.730.100			500 / 5,000
	-	9	72.730.300	72.733.001		500 / 5,000	
		_	without	72.730.303	72.733.010	72.785	500 / 5,000

Ordering	Ordering information – Screw cap micro tubes without print – 1.5 ml							
				1 Skirted base with knurls	2 Conical base with knurls	3 Conical base without knurls	Packaging: bag/case	
			ROSSMARE* PLIS			72.692.210		25 / 500
			PCR *			72.692.415		100 / 1,000
1	2	3	PCR *	9		72.692.405		100 / 1,000
		sterile*			72.692.105		100 / 1,000	
		sterile*	9		72.692.005		100 / 1,000	
		_			72.692.100		500 / 5,000	
		_	9		72.692		500 / 5,000	
			-	without	72.703	72.607	72.687	500 / 5,000

Key:	
9.0	= attached screw cap
9	= standard screw cap
*	= assembled

Ordering information – Screw cap micro tubes without print – 2.0 ml

			Purity/ve	rsion	1 Skirted base with knurls	2 Conical base with knurls	3 Skirted base without knurls	Packaging: bag/case
			PCR *			72.693.465		100 / 1,000
1	2	3	sterile*		72.694.105	72.693.105		100 / 1,000
	444	sterile*		72.694.305	72.693.005		100 / 1,000	
	_		72.694.100	72.693.100		500 / 5,000		
			_	9	72.694.300	72.693		500 / 5,000
			_	without	72.609.300	72.608	72.664	500 / 5,000

Screw cap micro tubes with print

For easy labeling, SARSTEDT offers screw cap micro tubes with a writing block and volume graduations.

Ordering information – So	crew cap m	icro tubes wit	h print	
	Purity/version		1 0.5 ml	2 1.5 ml
	RODSPHERE* PLUS STORY	9,0	72.730.217	72.703.2

1	2	3
		1,25
(E		
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ECC ECCENTER OF THE PERSON OF		72.730.217	72.703.217	72.694.217	25/500
PCR *		72.730.416	72.703.416	72.694.416	100/1,000
PCR *		72.730.406	72.703.406	72.694.406	100/1,000
sterile*		72.730.106		72.694.106	100/1,000
sterile*		72.730.306		72.694.306 72.694.396**	100/1,000
_		72.730.107		72.694.107	500/1,000
-	9	72.730.307		72.694.307	250/5,000
_	without	72.730.309		72.609.601	250/5,000

Packaging: bag/case

3 2.0 ml

Skirted base with knurls

Key:

_	
	= attached screw cap
9	= standard screw cap
*	= assembled
**	= color mix with 10 different cap colors

Screw cap micro tubes for special applications

Secure storage of particularly small volumes

Highly concentrated or expensive reagents and small sample volumes require maximum recovery with minimal fluid loss. The SARSTEDT volume limiter cap and corresponding tube reduce the vessel volume to $100 \mu l$. The special cap blocks dead space in the upper region of the tube and reduces evaporation, providing an ideal solution for storage, retention, and filling of small volumes.

Ordering information – Screw cap micro tube with volume limiter cap

Description	Packaging: bag/case	Order no.
Screw cap micro tube for limiting volume	500/5,000	72.733.201
Volume limiter screw cap	500/5,000	65.710

Amber screw cap micro tubes for light protection

Amber colored screw cap micro tubes are suitable for the storage of light-sensitive substances such as vitamins, enzymes, or antibodies with fluorescent dyes. The protective coloration of the vessel wall provides protection against UV rays and security in the examination of photosensitive analytes. The vessels are distinguished by the following advantages:

- Light protection by amber coloration UV radiation reduced by more than 90%
- Skirted base secure handling on the laboratory bench
- Knurls one-handed cap handling in the special gripper rack
- Caps sold separately

Ordering information – Amber-colored screw cap micro tubes without caps

Volume	Packaging: bag/case	Order no.
0.5 ml	500/5,000	72.730.304
1.5 ml	500/1,000	72.703.004
2.0 ml	500/5,000	72.609.303



Caps and coding

Colored screw caps

All SARSTEDT screw cap micro tubes can be combined with colored screw caps to facilitate labeling and sample identification. In addition to the naturally transparent screw cap, 10 other colors are available individually or as part of a mixed color option.

Ordering information – Colored screw caps							
Color		Order no.	Color		Order no.		
natural	\times	65.716.300	orange		65.716.306		
blue		65.716.301	black		65.716.307		
yellow		65.716.302	violet		65.716.308		
red		65.716.303	white		65.716.310		
pink		65.716.304	brown		65.716.309		
green		65.716.305	Color mix (1 each of 10 c		65.716.399		
Packaging: 500 pcs/bag · 10,000 pcs/case							

Ordering information – Colored screw caps in Biosphere® plus Color Order no. Color Order no. natural △ 65.716.220 orange ← 65.716.226 blue ← 65.716.221 black ← 65.716.227 yellow ← 65.716.212 violet ← 65.716.228 red ← 65.716.223 white ← 65.716.242 green ← 65.716.225 brown ← 65.716.229 From production: shelf life 36 months, CE, sterile Packaging: 50 pcs/double bag · 5,000 pcs/case Formation Formation						PLUS Ster (a/200//20late / 80ace/ PCR solidate / (ATP / Pyraper due)				
natural ⊠ 65.716.220 orange 65.716.226 blue 65.716.221 black 65.716.227 yellow 65.716.212 violet 65.716.228 red 65.716.223 white 65.716.242 green 65.716.225 brown 65.716.229 From production: shelf life 36 months, CE, sterile	_	Ordering information –								
blue 65.716.221 black 65.716.227 yellow 65.716.212 violet 65.716.228 red 65.716.223 white 65.716.242 green 65.716.225 brown 65.716.229 From production: shelf life 36 months, CE, sterile	Color		Order no.	Color		Order no.				
yellow 65.716.212 violet 65.716.228 red 65.716.223 white □ 65.716.242 green 65.716.225 brown 65.716.229 From production: shelf life 36 months, CE, sterile	natural	\times	65.716.220	orange		65.716.226				
red ■ 65.716.223 white □ 65.716.242 green ■ 65.716.225 brown ■ 65.716.229 From production: shelf life 36 months, CE, sterile	blue		65.716.221	black		65.716.227				
green 65.716.225 brown 65.716.229 From production: shelf life 36 months, CE, sterile	yellow		65.716.212	violet		65.716.228				
From production: shelf life 36 months, CE, sterile	red		65.716.223	white		65.716.242				
, ,	green 65.716.225 brown 65.716.229									
Packaging: 50 pcs/double bag · 5,000 pcs/case	From production: shelf life 36 months, CE, sterile									
	Packaging	j: 50 pcs	s/double bag · 5,0	00 pcs/case						

Pierceable membrane cap – efficient and safe processing

A screw cap with an integrated pierceable membrane is ideal for automated filling and direct adaptation to analyzers. Available separately, it can be combined with all SARSTEDT screw cap micro tubes. Time-consuming opening and closing is unnecessary, efficient processing is accelerated, and the risk of contamination is reduced.

Ordering information – Membrane cap Description Packaging: bag/case Order no. Membrane cap for screw cap micro tubes Packaging: bag/case 65.3716



Attached loop screw caps

SARSTEDT developed the attached loop screw cap for reliable cap allocation. The cap loop is placed securely between the knurls and thread and can be combined with every tube type.

Ordering information – Attached loop screw caps Description Attached loop screw caps for micro tubes Packaging: bag/case Order no. 500/5,000 65.712



Colored inserts for attached loop screw caps

Fast allocation and clear identification of reagents and samples is of central importance in laboratory work. Cap inserts in eight different colors that are simply pressed into the retaining loop cap allows samples to be coded quickly and flexibly for easy identification.

Ordering	information	۱ –	Col	orea	cap	insert	S
		_					



Make it yours! Our products tailored to your requirements

Whether individual color coding, specially produced labels, packaging or certified purity grades – the screw cap micro tube can be customized in a variety of ways. Colored caps facilitate quick identification of specimens and increase efficiency in the laboratory. Customized labels with your own logo, company colors or barcodes improve recognition of your specimens and consistently strengthen your brand image.





customization.sarstedt.com

Sterile double bag packaging

Screw cap micro tubes in sterile double bag packaging

Aseptic handling is required for materials used in clean and sterile rooms, test kits, and highly sensitive analyses. For such demanding applications, SARSTEDT offers screw cap micro tubes and caps in special sterile double bag packaging. Each sealed bag is packaged in a sealed second bag. After removal from this second outer bag, a completely sterile inner bag package is provided.

- Screw cap micro tubes and screw caps in double bags a clean, sterile solution for a wide range of applications
- Tubes and caps sold separately ideal for automated filling
- Caps in 10 colors easy color-coding for identification

Ordering information – Screw cap micro tubes, double bagged and sterile

Volume	Skirted	Knurls	Packaging: double bag/case	Order no.
0.5 ml	•	•	500/2,500	72.730.311
1.5 ml		✓	500/2,500	72.607.772
1.5 ml			500/2,500	72.687.772
2.0 ml	✓		500/2,500	72.664.711
2.0 ml	V	~	500/2,500	72.609.311

Ordering information – Screw caps, double bagged and sterile

•		_	-		
Order no.	Color		Order no.	Color	Packaging: double bag/case
65.716.320	natural	\times	65.716.322	yellow	500/5,000
65.716.323	red		65.716.321	blue	500/5,000
65.716.325	green		65.716.326	orange	500/5,000
65.716.327	black		65.716.329	brown	500/5,000
65.716.328	violet		65.716.330	white	500/5,000



Racks

Special gripper racks for screw cap micro tubes

The circumference knurls of SARSTEDT screw cap micro tubes lock into the notched apertures of corresponding gripper racks for one-handed opening and closing.

The gripper racks are made from durable, break-resistant, and transparent polycarbonate and can be disassembled for easy cleaning and autoclaving.



Ordering information – Gripper rack with notched apertures

Capacity/format	Length	Width	Height	Order no.
18 / 3 x 6	137	70	40	93.894
20 / 2 x 10	257	62	40	93.848.100
48 / 4 x 12	257	90	40	93.1428

IsoFreeze® Rack for 1.5 and 2.0 ml screw cap micro tubes

The SARSTEDT IsoFreeze® Rack is a pipetting and storage station that provides reliable temperature control for temperaturesensitive applications like enzyme analysis, PCR or cell-based assays, careful sample thawing, and for stopping reaction. Once frozen, the IsoFreeze® Rack maintains the sample temperature at 4°C for up to 3.5 hours with the lid in place. If the IsoFreeze® Rack temperature rises to 7°C, the rack color noticeably changes from purple to pink. In addition to temperature maintenance, the ${\tt IsoFreeze}^{\scriptsize @}$ Rack eliminates contamination risks associated with ice storage.

Ordering information – IsoFreeze® Rack for 1.5 and 2.0 ml screw cap micro tubes and micro tubes

Capacity/format	Length	Width	Height	Packaging/item	Order no.
24 / 4 x 6	146	105	70	1/case	95.983



Storage boxes

Plastic storage boxes

For the convenient storage of screw cap micro tube and reaction vessels with a volume of 1.5 ml and 2.0 ml, SARSTEDT offers high quality polypropylene storage boxes suitable for long-term storage down to -90°C. Advantages of plastic storage boxes:

- Hinged or slip-on lids suitable handling for all storage types
- Alphanumeric marking inside the box facilitates sample identification
- Autoclavable simple hygienic cleaning (121°C, 20 min.)
- Cold resistant reliable storage down to -90°C
- Six colors color-coded organization

Boxes with slip-on lid

- dimensions: 130 mm x 130 mm x 45 mm (L x W x H)
- 81 storage spaces
- grid size 9 x 9

Boxes with hinged lid

- dimensions: 150 mm x 140 mm x 55 mm (L x W x H)
- 100 storage spaces
- grid size 10 x 10

Ordering information – Plastic storage boxes

Color		Slip-on lid	Hinged lid	Packaging: bag/case
transparent	\boxtimes	93.876	93.877	5/20
pink		93.876.281	93.877.210	5/20
orange		93.876.381	93.877.310	5/20
yellow		93.876.481	93.877.410	5/20
green		93.876.581	93.877.510	5/20
blue		93.876.681	93.877.610	5/20



Cardboard storage boxes

SARSTEDT cardboard storage boxes provide secure and light-protected storage of screw cap micro tubes of all sizes. Their grid inserts provide designated storage space for 81 or 100 tubes and ample writing space is available on the lid. External box surfaces are moisture-repellent, and storage at -80°C is possible for long time periods.

Ordering information – Cardboard storage boxes

Capacity/format	Suitable for	Length	Width	Height	Order no.
100 / 10 x 10	0.5 ml	135	135	34	95.64.923
100 / 10 x 10	1.5/2.0 ml	135	135	45	95.64.997
81 / 9 x 9	1.5/2.0 ml	135	135	45	95.64.981

Styrofoam containers

Due to their insulating properties, Styrofoam containers are particularly suitable for storing temperature-sensitive reagents and samples. The small 20-place option can also be used as a benchtop rack.

Ordering information – Styrofoam container for 1.5 ml and 2.0 ml screw cap micro tubes and micro tubes

Capacity/format	Lid	Length	Width	Height	Order no.
100 / 5 x 20	without	390	80	50	95.1439
100 / 5 x 20	✓	340	100	65	95.64.249
20 / 5 x 4	V	100	85	65	95.64.259



If you have any questions, we'll be happy to help!

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