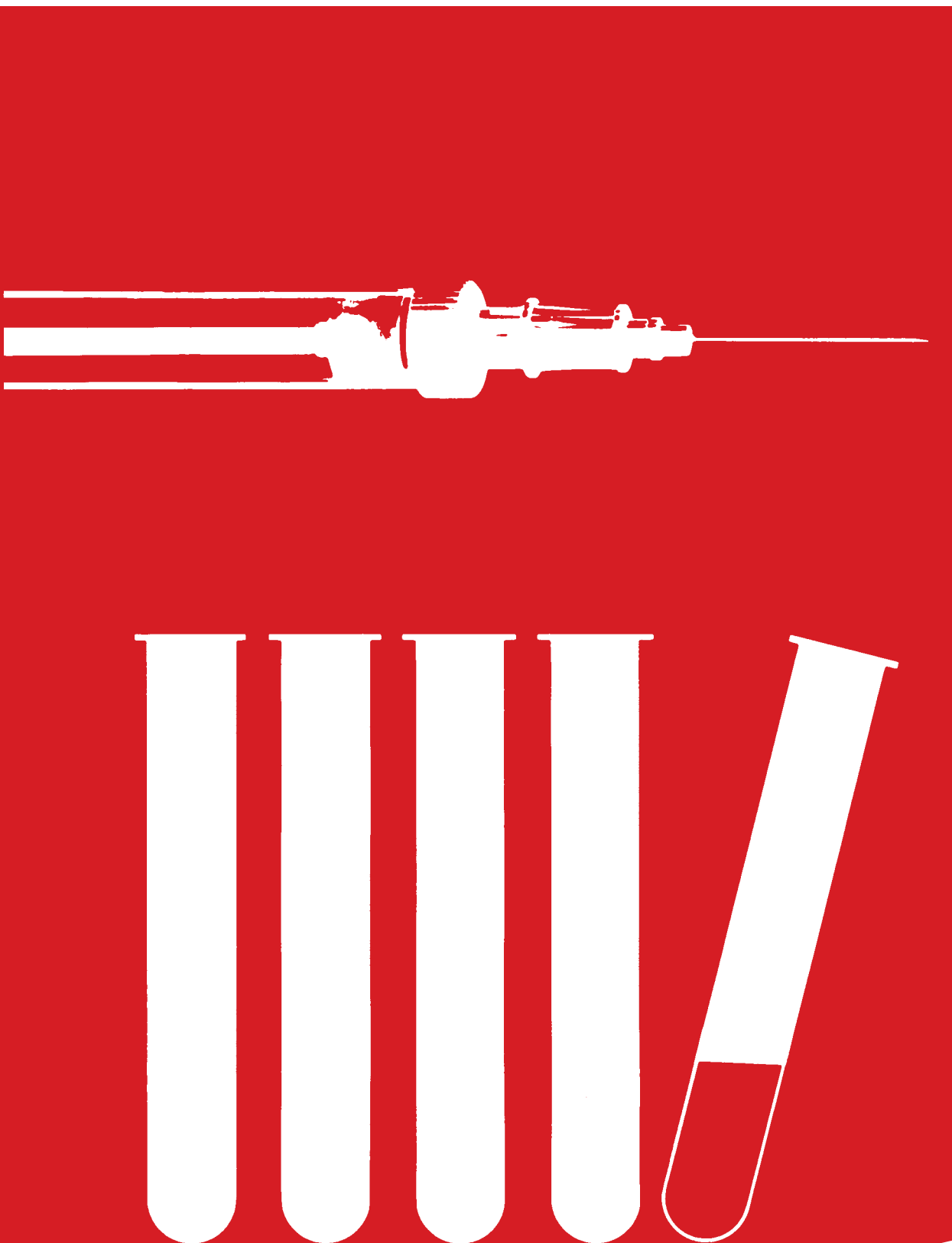




SARSTEDT



Gesamtkatalog · Comprehensive catalogue · Catalogue général
Catalogo generale · algemene catalogus · catálogo completo

2009/2010

Navigation

Bookmarks

The Sarstedt catalogue is divided into product categories by means of bookmarks. These bookmarks are directly linked with the corresponding product groups.

[*Show Bookmarks*](#)

The above link can activate and deactivate bookmarks. Pressing 'F5' activates or deactivates the same function throughout the entire catalogue.

Index

Navigation is also possible with the index. Product names and topics provide an overview of the Sarstedt product range. By clicking on the product name or topic, the corresponding pages will appear. In addition, every cross reference in the catalogue is interlinked for easy access to the individual topics.

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Information

Order No. Index

The order number index at the end of the catalogue enables easy navigation when you already know the order number of a particular product. By clicking on the product number, the links will direct you to the corresponding catalogue page.

[*Show Order No. Index*](#)

Search



The integral search function of Adobe Acrobat® enables the user to search the catalogue for product numbers or key words. Start this function by clicking on the 'Search' button or 'strg+f'. Then type the key word or product number to be directed to the corresponding page.

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Blood Collection and Diagnostic Products

Venous Blood Collection

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Blood Collection and Diagnostic Products

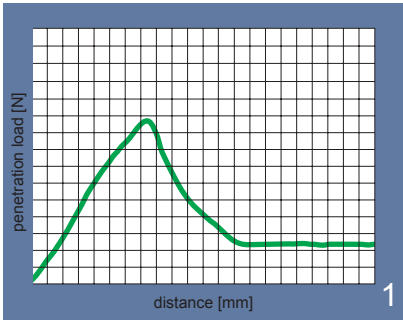
The 4th generation S-Monovette® offers all the advantages of a modern blood collection system.

The enclosed blood collection system, consisting of S-Monovette® and needle, has been significantly developed with four innovations. Therefore, blood collection is improved, reliability increased and the risk of infection minimised even further. The proven advantages of the system, such as a screw cap for avoiding the aerosol effect, graduation for optical volume control and impact resistance remain important characteristics of our S-Monovette®.

- 1 The S-Monovette® needle is enhanced by an improved bevel and optimised glide following skin puncture. This minimises discomfort during blood collection.
- 2 The deeper recessed membrane prevents direct contact with the puncture site on the membrane. The result is even greater protection against infection and safe use of the S-Monovette®.
- 3 A 3-pin locking mechanism on the S-Monovette® further improves the connection with the needle. This combination of the needle and S-Monovette® blood collection system guarantees minimum patient discomfort.
- 4 The highly transparent plastic materials used in the manufacture of the S-Monovette® ensure optimal visual assessment of the sample quality.



This curve illustrates optimal penetration load and gliding performance



The deeper recessed membrane improves protection against infection

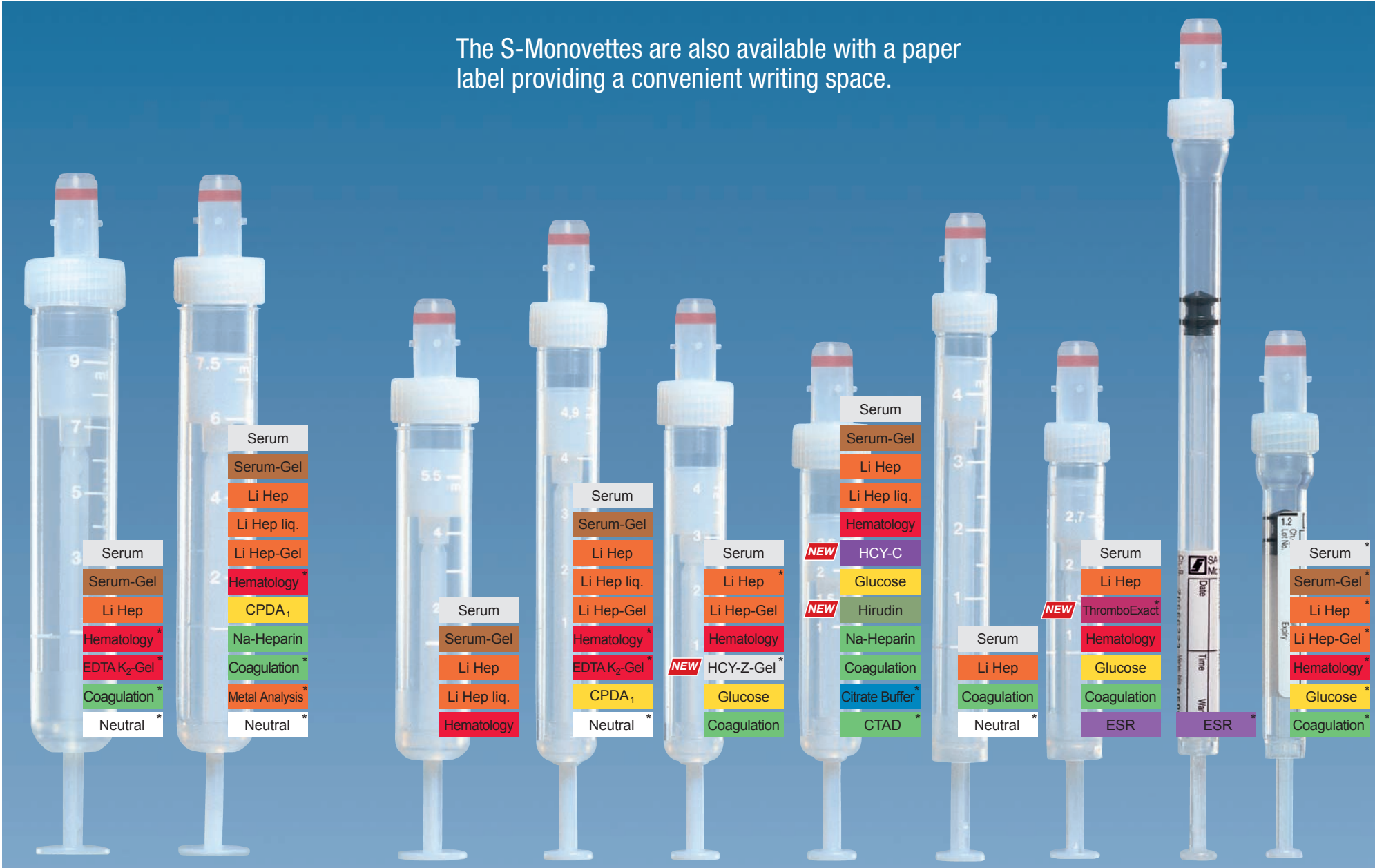


The 3-pin locking mechanism improves connection between the S-Monovette® and needle



Blood Collection and Diagnostic Products

The S-Monovettes are also available with a paper label providing a convenient writing space.



Outer tube diameter	16 mm	15 mm	15 mm	13 mm	13 mm	13 mm	13 mm	11 mm	11 mm	8 mm	8 mm
Outer diameter screw cap	19 mm	18 mm	18 mm	16 mm	16 mm	16 mm	16 mm	13 mm	13 mm	13 mm	13 mm
Tube length with screw cap	108 mm	108 mm	91 mm	106 mm	91 mm	81 mm	108 mm	82 mm	146 mm	130 mm	66 mm
Tube length without screw cap	92 mm	92 mm	75 mm	90 mm	75 mm	65 mm	92 mm	66 mm	130 mm	66 mm	66 mm
Screw cap for re-capping	65.176	65.729	65.729	65.728	65.728	65.728	65.728	65.1121	65.1121	65.1121	65.1121

* S-Monovettes are only available with label

Sediplus® Blood Sedimentation System

Combined system for safe blood collection and sedimentation

Blood Collection and Diagnostic Products



- ☐ Automatic and manual determination in accordance with Westergren
- ☐ Safety cap in sedimentation pipette prevents leakage of blood
- ☐ Simple adjustment of the blood column to zero through thread
- ☐ Bubble-free filling of pipettes
- ☐ Sedimentation pipette with assembled piston insert

Sediplus® system S-Monovettes and sample tubes are shown on pp. 14 and 33.

Accessories for Sediplus®
Sedimentation pipette including assembled piston insert

Order Number	Material	Description	Packaging Pcs./Case
86.1996	plastic	with 0-mark	1,000
86.1996.062	plastic	with printed graduation	1,000

Automatic and manual determination in accordance with Westergren

Sediplus® S 100

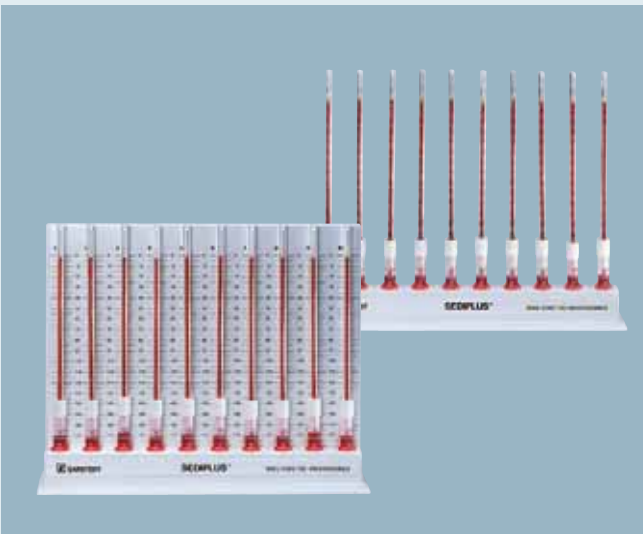
- ☐ Optimum results when used in combination with the Sediplus® ESR system
- ☐ 10 ESR samples measured simultaneously and independently
- ☐ Digital readout of results and measurement time via a multi-functional display

ESR rack with graduated back wall
Order Number: 90.1060

ESR rack without graduated back wall
(for graduated pipettes)
Order Number: 90.1060.062



Sediplus® ESR system without or with a computer/printer interface (see p. 158).



Please order a special leaflet for further information.

S-Sedivette® Enclosed ESR System

Enclosed system from blood collection to blood sedimentation



- ☐ Blood collection with the proven S-Sedivette®
- ☐ ESR determination in the collection tube
- ☐ Sample transfer avoided, no sedimentation pipette
- ☐ Hygienic and safe to use
- ☐ Economical and time-saving

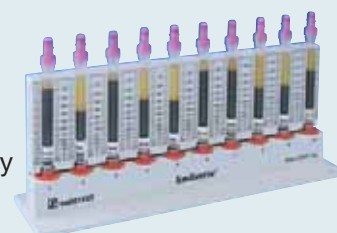
S-Sedivette®
Order Number: 06.1690.001
 Packaging: 500 pcs./case

ESR rack with graduation
Order Number: 90.1090



Sarmix® M 200

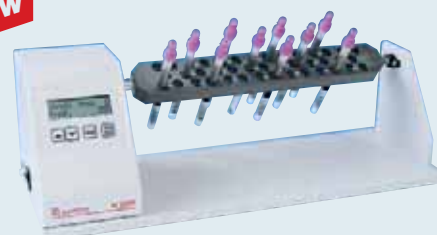
Sarmix® M 200 has been specifically designed for the S-Sedivette® to ensure careful and gentle mixing after blood collection and prior to analysis.



Sarmix® M 2000

NEW

Rotor with 40 positions and an optimized mixing program for use with the S-Sedivette®



Sediplus® S 200

Based upon experience with the proven Sediplus® S 100, the Sediplus® S 200 has been designed to work in combination with the S-Sedivette® for the safe determination of sedimentation rates.

Readings are provided preconverted in mm.



Sediplus® S 2000

Automated 40-channel instrument for ESR determination using the S-Sedivette®

- ☐ 40 samples can be measured simultaneously and independently
- ☐ May be extended to 160 positions using extension modules



See pp. 158-159 for further information or order our special brochure



S-Monovette® for PFA 100

- ☐ Citrate buffer 3.8 % = 0.129 mol/l
- ☐ pH 5.5

S-Monovette® Lithium Heparin for Trace Metal analysis

When used in combination with an approved needle for S-Monovette®, (order no. 85.1162.400), this product is ideal for the determination of the following Trace Metals:

Tl	Pb	Mn	Cd	Fe	Al
Ni	Cu	Se	Cr	Zn	Hg

Maximum base levels for each element are detailed on each S-Monovette® tube label.

Order Number	Description	Nominal Volume	Packaging Pcs./Case
04.1910.001	S-Monovette® PFA 100	3.8 ml	500
01.1604.400	S-Monovette® metal analysis	7.5 ml	500
85.1162.400	Needle 21 G for metal analysis		1,000



Monovette® for blood gas analysis, 2 ml

- ☐ Calcium-balanced lithium heparin anticoagulant
- ☐ Individually wrapped and sterile
- ☐ Blood collection is carried out according to the proven aspiration principle

Order Number	Description	Nominal Volume	Packaging Pcs./Case
05.1147.020	Blood gas Monovette®	2.0 ml	500

Membrane adapter for blood gas Monovette®

- ☐ When using a S-Monovette® needle, this adapter is necessary for blood collection with the blood gas Monovette®
- ☐ Individually wrapped and sterile

Order Number	Description	Packaging Pcs./Case
14.1112	Membrane adapter	1,000



Monovette® for veterinary medicine

- ☐ Lithium heparin anticoagulant
- ☐ Clear identification due to new double barcode label
- ☐ Safe sealing by Luer cone "click" closure

Order Number	Description	Nominal Volume	Packaging Pcs./Case
09.210.001	Monovette® VetMed with standard label	4.5 ml	500
09.210.xxx*	Monovette® VetMed with double barcode label	4.5 ml	500

* = manufactured to order only

NEW

S-Monovette® ThromboExact for thrombocyte determination when pseudothrombocytopenia is suspected

The term pseudothrombocytopenia defines the preanalytical phenomenon of an erroneously low thrombocyte count that may occur in combination with automatic blood cell analysers.

Generally, pseudothrombocytopenia is caused by thrombocyte aggregation. Early detection of this phenomenon ensures that the diagnostic and therapeutic consequences of a thrombocytopenia misdiagnosis are avoided.

S-Monovette® ThromboExact

- ☐ Prevents the formation of thrombocyte aggregation
- ☐ Ascertains multiple intolerance reactions (e.g. to Heparin and/or Citrate) in addition to the most common intolerance to EDTA
- ☐ Provides an accurate thrombocyte count up to 12 hours after blood collection

Order Number	Description	Nominal Volume	Packaging
05.1168.001	S-Monovette® ThromboExact	2.7 ml	50/inner case 500/case



NEW

S-Monovette® Homocysteine

Preanalytical conditions play a decisive role in homocysteine determination because erythrocytes in a collected blood sample continue to produce homocysteine.

Without stabilization, homocysteine diffuses into the serum/plasma at a significant increase in concentration of approximately 10% per hour.

S-Monovette® HCY-C for analyses from citrated plasma

- ☐ Pre-dosed acidic citrate (pH 4.3) enables sample stability for 6 hours at room temperature
- ☐ Increased sample stability for up to 48 hours when stored in a refrigerator
- ☐ Pre-dosed citrate requires a multiplication factor of 1.11 to obtain the diagnostic homocysteine value

NEW

S-Monovette® HCY-Z-Gel for analyses from serum

- ☐ A stabilizer ensures constant HCY concentration of the sample prior to centrifugation for 8 hours at room temperature
- ☐ After centrifugation, the pre-dosed gel forms a diffusion barrier between the serum and the blood clot, enabling a prolonged sample stability for up to 96 hours when stored at room temperature

Order Number	Description	Nominal Volume	Packaging Pcs./Case
04.1911.001	S-Monovette® Homocysteine HCY-C	2.9 ml	500
04.1908.001	S-Monovette® Homocysteine HCY-Z-Gel	2.6 ml	500



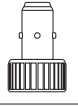

Blood Collection and Diagnostic Products

Ordering details

		L 92 mm Ø 16 mm	L 92 mm Ø 15 mm	L 75 mm Ø 15 mm	L 90 mm Ø 13 mm	L 75 mm Ø 13 mm	L 65 mm Ø 13 mm	L 92 mm Ø 11 mm
	Serum Clotting Activator	02.1063 02.1063.001 9.0 ml	01.1601 01.1601.001 7.5 ml	03.1397 03.1397.001 5.5 ml	04.1934 04.1934.001 4.9 ml	04.1943.001 2.7 ml	04.1904 04.1904.001 2.6 ml	05.1104 05.1104.001 4.5 ml
	Serum-Gel Clotting Activator	02.1388 02.1388.001 9.0 ml	01.1602 01.1602.001 7.5 ml	03.1524 03.1524.001 4.7 ml	04.1935 04.1935.001 4.9 ml		04.1905 04.1905.001 2.6 ml	
	Plasma Lithium Heparin	02.1065 02.1065.001 9.0 ml	01.1604 01.1604.001 7.5 ml	03.1628 03.1628.001 5.5 ml	04.1936 04.1936.001 4.9 ml	04.1929.001 2.7 ml	04.1906 04.1906.001 2.6 ml	05.1106 05.1106.001 4.5 ml
	Plasma-Gel Lithium Heparin		01.1634 7.5 ml	03.1631.001 4.7 ml	04.1940 4.9 ml	04.1927.001 4.0 ml 04.1928 2.7 ml	04.1907 2.6 ml	
	Haematology Potassium EDTA	02.1066.001 9.0 ml	01.1605.001 7.5 ml	03.1068 03.1068.001 4.0 ml	04.1931 04.1931.001 4.9 ml	04.1917 2.7 ml	04.1901 04.1901.001 2.6 ml	
	Glucose Fluoride					04.1918 2.7 ml	04.1903 04.1903.001 2.6 ml	
	Coagulation Sodium Citrate 1 in 10	02.1067.001 10.0 ml	01.1606.001 8.2 ml			04.1919 3.0 ml 04.1922 4.3 ml	04.1902 04.1902.001 2.9 ml	05.1071 05.1071.001 5.0 ml
	ESR Sodium Citrate 1 in 5							S-Sedivette® 130 x 8 mm 06.1690.001 3.5 ml

Each S-Monovette® is indicated with the colour code shown above. S-Monovettes with order number ending in .001 have a coloured paper label corresponding to the table.

Special S-Monovette®

	S-Monovette® EDTA K ₂ -Gel 92 x 16 mm; 9.0 ml 02.1333.001 90 x 13 mm; 4.9 ml 04.1932.001	S-Monovette® citrate/buffer 65 x 13 mm 3.8 ml 04.1910.001	S-Monovette® CPDA ₁ 92 x 15 mm; 8.5 ml 01.1610.001 90 x 13 mm; 5.6 ml 04.1938.001	S-Monovette® for trace metals 92 x 15 mm 7.5 ml 01.1604.400	S-Monovette® Blood bank 92 x 15 mm green label; 7.5 ml 01.1601.014	S-Monovette® Li Heparin liquid 92 x 15 mm; 7.5 ml 01.1608.001 90 x 13 mm; 4.9 ml 04.1939.001	S-Monovette® CTAD 65 x 13 mm 2.9 ml 04.1909.001
	S-Monovette® ThromboExact 66 x 11 mm 2.7 ml 05.1168.001	S-Monovette® Homocysteine HCY-C 65 x 13 mm 2.9 ml 04.1911.001	S-Monovette® Homocysteine HCY-Z-Gel 75 x 13 mm 2.7 ml 04.1908.001	S-Monovette® Hirudin 65 x 13 mm 2.6 ml 04.1912.001	S-Monovette® Na-Heparin 92 x 15 mm; 7.5 ml 01.1613.100 65 x 13 mm; 2.6 ml 04.1913.100	S-Monovette® EDTA 65 x 13 mm; 3.4 ml 04.1914.001 04.1914	Blood gas- Monovette® 66 x 11 mm; 2.0 ml (ind. wrapped sterile) 05.1147.020

Neutral S-Monovette®

	without preparation	92 x 16 mm 02.1726.001 9.0 ml	92 x 15 mm 01.1728.001 7.5 ml	90 x 13 mm 04.1926.001 4.9 ml	92 x 11 mm 05.1727.001 4.5 ml	66 x 11 mm 05.1729.001 2.7 ml		
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Packaging: All S-Monovettes detailed above are supplied sterile and are packaged in units of 50 per box, 500 per case. S-Monovettes individually wrapped, sterile are available at a minimum quantity of 10,000 pcs.

Blood Collection and Diagnostic Products

Serum Separation (Clotting Activator)

After blood collection, the sample will normally clot within 20 to 30 minutes. A clotting activator is coated onto plastic barrier beads which, due to their specific density, form a layer between the blood clot and serum sample after centrifugation. The serum sample is suitable for all routine Clinical Chemistry and Serological investigations. For the physical separation of serum from the blood clot after centrifugation, we recommend our Seraplas® separators (see page 22).

Serum Separation Gel (Clotting Activator)

After centrifugation, the gel provides an effective barrier between the blood clot and serum. A particular advantage of the S-Monovette® Serum-Gel is its suitability for use as a direct sampling container in combination with Clinical Chemistry analysers.

Plasma Separation (Lithium Heparin)

Heparin is the anticoagulant of choice for Clinical Chemistry investigations on plasma. The concentration is within the range 10-30 I.U./ml blood. Heparin is coated onto plastic beads which, due to their specific density, form a barrier between the red cell layer and plasma after centrifugation. Heparinized plasma is suitable for most routine Clinical Chemistry investigations. For the physical separation of plasma from the red cell layer after centrifugation, we recommend our Seraplas® separators (see page 22).

Plasma Separation Gel (Lithium Heparin)

After centrifugation, the gel provides an effective barrier between the plasma and the red cell layer. This prevents diffusion from the cells into the plasma during transport, analysis and storage.

Haematology (Potassium EDTA)

EDTA is the anticoagulant of choice for almost all routine haematological investigations. Each S-Monovette® contains sufficient potassium EDTA to achieve a concentration of 1.2 - 2 mg EDTA/ml blood after collection. Maximum dilution caused by the liquid anticoagulant is 1%. The effectiveness of EDTA is not impaired by storage-induced drying.

Glucose Determination (Fluoride)

Fluoride salt, as a glycolysis inhibitor, is combined with an anticoagulant as a preparation for the performance of glucose estimations. Each S-Monovette® contains sufficient fluoride salt to achieve a final concentration after sampling of 2-3 mg/ml blood.

Coagulation (citrate)

Citrate (0.106 molar solution) is the anticoagulant of choice for all physiological coagulation studies. Provided the recommended volume of blood is drawn, each S-Monovette® contains a dilution ratio of 1 in 10 (1 part citrate + 9 parts blood) after collection.

Blood sedimentation (citrate)

Citrate (0.106 molar solution) is the anticoagulant of choice for Erythrocyte Sedimentation Rate (ESR) determination. Provided the recommended volume of blood is drawn, each S-Monovette® contains a dilution ratio of 5 (1 part citrate + 4 parts blood) after collection. For the automatic determination of ESRs, we recommend the Sediplus® S 100, S 200 and S 2000 instruments (see pages 10 - 11).

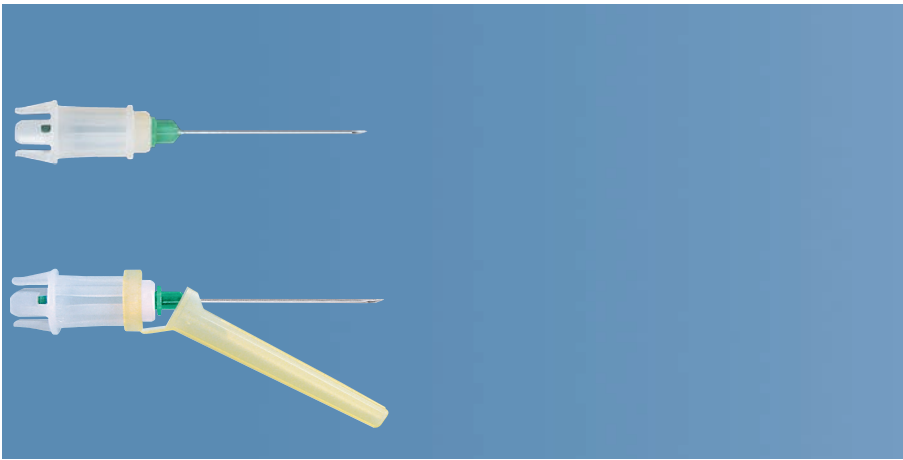
Blood Gas Analysis (Lithium Heparin, calcium-balanced)

Calcium-balanced Lithium Heparin (for measuring ionized calcium or magnesium) is the anticoagulant of choice for blood gas analysis. The concentration of calcium-balanced Lithium Heparin is 50 I.U./ml blood on average after sample collection.

Needles and Adapters

Needles and adapters –
can be individually combined with the S-Monovette®

Blood Collection and
Diagnostic Products



S-Monovette® needle and Safety-Needle

Order No.	Ø / Length	Description	Colour code
S-Monovette® needle			
85.1160	0.9 mm /38 mm	20 G x 1 1/2", No. 1	yellow
85.1162	0.8 mm /38 mm	21 G x 1 1/2", No. 2	green
85.1440	0.7 mm /38 mm	22 G x 1 1/2"	black
85.1162.400 for trace element analysis	0.8 mm /38 mm	21 G x 1 1/2", No. 2	green
Safety-Needle			
85.1160.200	0.9 mm /38 mm	20 G x 1 1/2"	yellow
85.1162.200	0.8 mm /38 mm	21 G x 1 1/2"	green
85.1440.200	0.7 mm /38 mm	22 G x 1 1/2"	black

Needles are designed for use with
the S-Monovette® and are avail-
able in a range of sizes (see table).

Packaging S-Monovette® needle:
ind. wrapped, 1,000/case

Packaging Safety-Needle:
ind. wrapped, 500/case

Blood Collection and
Diagnostic Products



Multifly® and Safety-Multifly® needle with Multi-Adapter

Order No.	Ø / Length	Description	Colour code	Tube length
Multifly® needle				
85.1637.035	0.9 mm /19 mm	20 G x 3/4",No. 1	yellow	200 mm
85.1638.035	0.8 mm /19 mm	21 G x 3/4",No. 2	green	200 mm
85.1640.035	0.6 mm /19 mm	23 G x 3/4",No.16	blue	200 mm
85.1637.005	0.9 mm /19 mm	20 G x 3/4",No. 1	yellow	80 mm
85.1638.005	0.8 mm /19 mm	21 G x 3/4",No. 2	green	80 mm
85.1640.005	0.6 mm /19 mm	23 G x 3/4",No.16	blue	80 mm
85.1642.005	0.5 mm /19 mm	25 G x 3/4",No.20	orange	80 mm
85.1638*	0.8 mm /19 mm	21 G x 3/4",No. 2	green	200 mm
Safety-Multifly®				
85.1637.235	0.9 mm /19 mm	20 G x 3/4",No. 1	yellow	200 mm
85.1638.235	0.8 mm /19 mm	21 G x 3/4",No. 2	green	200 mm
85.1640.235	0.6 mm /19 mm	23 G x 3/4",No.16	blue	200 mm
85.1637.205	0.9 mm /19 mm	20 G x 3/4",No. 1	yellow	80 mm
85.1638.205	0.8 mm /19 mm	21 G x 3/4",No. 2	green	80 mm
85.1640.205	0.6 mm /19 mm	23 G x 3/4",No.16	blue	80 mm
85.1642.205	0.5 mm /19 mm	25 G x 3/4",No.20	orange	80 mm

*For blood culture blood collection with screwable guide sleeve

Multifly® needles for enclosed
blood collection with the
S-Monovette®.

Especially suitable for patients
with poor veins.

Packaging:
ind. wrapped, 500/case

Multifly® needle without adapter

Order No.	Ø / Length	Description	Colour Code	Tube length
85.1638.001	0.8 mm /19 mm	21 G x 3/4", No. 2	green	200 mm

For blood collection with Luer
systems, the Multifly® needle is
also available without adapter.

Packaging:
ind. wrapped, 500/case

Multi-Adapter

Order No.	Description	Packaging
14.1205	Luer	ind. wrapped/sterile, 1,000/case
14.1205.100	Luer-Lock	

The Multi-Adapter, available in
Luer and Luer-Lock version,
allows the S-Monovette® to
be used with Luer systems
(e.g. catheters, blood collection
sets, etc.).

Membrane adapter

Order No.	Packaging
14.1112	ind. wrapped/sterile, 1,000/case

The Membrane adapter allows a
device with a Luer fitting (e.g.
blood gas Monovette®, syringe,
etc.) to be used in combination
with S-Monovette® and Multifly®
needles.

Multi-Safe Disposal Boxes



Safe container for the disposal of contaminated sharps etc.

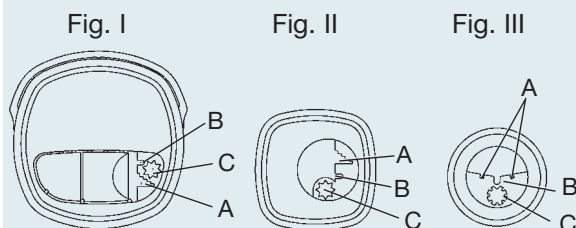
- ☐ Increased safety for needle disposal
- ☐ User friendly lid system provides optimum safety
- ☐ The size of the opening may be customized by breaking the two perforated sections prior to lid assembly
- ☐ Flat adapter or wall holder secure Multi-Safe boxes to work surfaces and walls

Order Number	Description	Packaging
77.1595.002	1 SaniSafe® 0.2 l Opening oval	110
77.1595.045	2 Multi-Safe 0.5 l Opening round	120
77.1595.007	3 Multi-Safe 0.7* l Opening round	150
77.1595.006	4 Multi-Safe 0.7 l Opening round	180
77.1595.015	5 Multi-Safe 1.5 l Opening oval	60
77.1595.117	6 Multi-Safe 1.9 l Opening oval	100
77.1595.121	7 Multi-Safe 2.3 l Opening oval	100
77.1595.032	8 Multi-Safe 3.25 l Opening oval	60
77.1595.040	9 Multi-Safe 4.0* l Opening oval	53
77.1595.051	10 Multi-Safe 5.0 l Opening oval	25
77.1595.060	11 Multi-Safe 6.0* l Opening oval	40
84.1390.xxx	Transparent label, 70 x 80 mm	on request

* reinforced walls

User-friendly screw-off and turn-off aids in lid

- A Stepped recess to twist off sharps
- B U-shaped recess to take off Luer-system sharps
- C Star-shaped recess to twist off insulin pens



* Volume statement refers to overall capacity, fill only up to line

2.0 l Round disposal box from PP with screw cap and label

- ☐ Large opening, suitable for ESR pipettes

Order Number	Volume/ Litre*	Height/ cm	Diameter/ cm	Packaging Pcs./Case
77.1515 not illustrated	2.0	24.5	11.5	30

Wall holder / table stand for 2.0 l round disposal box
Order Number: 95.1530

* Volume statement refers to overall capacity, fill only up to line

Flat adapter

Order Number: 95.965.001



Not for use with Multi-Safe 1.5 l and SaniSafe® 0.2 l

Wall holder

Order Number: 95.963



NEW

Safety-Tray for the safe transport of blood collection accessories

Designed for use in blood collection routine, the Safety-Tray is ideally suited to accommodate Multi-Safe disposal boxes 0.7l and 1.5l, dispenser boxes with lid, cups and racks with handles in a variety of colours.

Note: Accessories (disposal boxes, cups etc.) are not included in the scope of supplies) and must be ordered as separate items.

We do not offer any disinfectant spray.

Version I



Version II



Version III



Version IV



Order Number	Description	Insert plate to accommodate:	Packaging Pcs./Case
93.1650.001	Safety-Tray version I	1 x S-Monovette® Rack D17 with handle 2 x Dispenser box with lid 1 x 0.7 l Multi-Safe box 2 x Disposable container 1 x Disinfectant spray	5
93.1650.101	Safety-Tray version I	1 x S-Monovette® Rack D17 with handle 2 x Dispenser box with lid 1 x 0.7 l Multi-Safe box 2 x Disposable container 1 x Disinfectant spray	1
93.1650.002	Safety-Tray version II	2 x Dispenser box with lid 1 x 1.5 l Multi-Safe box 5 x Disposable container 1 x Disinfectant spray	5
93.1650.102	Safety-Tray version II	2 x Dispenser box with lid 1 x 1.5 l Multi-Safe box 5 x Disposable container 1 x Disinfectant spray	1
93.1650.003	Safety-Tray version III	2 x Dispenser box with lid 1 x 0.7 l Multi-Safe box 8 x Disposable container 1 x Disinfectant spray	5
93.1650.103	Safety-Tray version III	2 x Dispenser box with lid 1 x 0.7 l Multi-Safe box 8 x Disposable container 1 x Disinfectant spray	1
93.1650.004	Safety-Tray version IV	1 x S-Monovette® Rack D17 with handle 2 x Dispenser box with lid 1 x 1.5 l Multi-Safe box 1 x Disposable container 1 x Disinfectant spray	5
93.1650.104	Safety-Tray version IV	1 x S-Monovette® Rack D17 with handle 2 x Dispenser box with lid 1 x 1.5 l Multi-Safe box 1 x Disposable container 1 x Disinfectant spray	1

Order Number	Description	Version	Packaging Pcs./Case
77.1595.007	Multi-Safe	0.7 l suitable for version I and III	150
77.1595.015	Multi-Safe	1.5 l suitable for version II and IV	60
95.813.001	Dispenser Box	with lid for Safety-Tray	35
75.1355.100	Container	125 ml for Safety-Tray	1,000
93.851.171-175	Rack D17	with handle, red, yellow, green, blue, orange	12

Separate insert plates for Safety-Tray (version I to IV) are available on request.

Modular Technology for Efficient Sample Preparation in the Clinical Laboratory

Solutions for routine workloads

The efficiency of a laboratory depends to a large extent on the quality and efficiency of its sample preparation.

Any laboratory, regardless of its size, can benefit from systems that automate sample preparation.

Sarstedt instrumentation simplifies routine operations with high throughput, efficient instrument loading, cost savings, and greater safety and precision.

Decapper DC 1200

At a rate of 1,200 tubes per hour, the Decapper DC 1200 removes screw caps and stoppers from tubes of different sizes simultaneously. Tubes are loaded via analyser-specific racks. Caps are disposed of hygienically. Repetitive motion injuries and accidental exposure risks associated with decapping are reduced.

Recapper RC 1200

The Recapper RC 1200 places a universal anti-evaporation cap, which accommodates tube diameters from 13-16 mm, onto open tubes for storage. Repetitive motion injuries associated with manually inserting caps are eliminated.

HSS Sample Sorting System

The HSS Sample Sorting System was specially developed for rapid sample tube pre- and post-analysis sorting.

Communicating with the laboratory's LIS, up to 1,400 tubes can be identified and opened per hour and sorted into defined distribution destinations.

The instrument also recaps and sorts tubes for post-analysis storage.

PVS Sample Distributor

The modular design of the PVS Sample Distribution System enables the simple integration of automated pre-analysis and post-analysis into a laboratory's existing organisation.

The system can process various sample types (serum, whole blood, urine) simultaneously. The PVS identifies sample tubes by the barcode and cap colour, produces bar-coded secondary tubes with sample aliquots, and sorts primary tubes directly into analyser-specific racks.

The instrument also recaps and sorts tubes for post-analysis storage.

A detailed brochure covering these products is available on request

Intelligent concepts for pre- and post-analytical sample processing

PVS Sample Distributor

The modular technology for efficient sample preparation

Identification - Opening - Sorting - Aliquoting



Decapper DC 1200

Recapper RC 1200

*The solution for your routine workload
Simple - Safe - Rapid*



HSS Sample Sorting System

The direct route to the analyser

Identification - Opening - Sorting



Accessories for Blood Collection



Seraplas® V

Valve separator for the separation of serum/plasma and blood clot after centrifugation

After separation, the plunger can be removed easily due to special connection between valve and plunger. Due to the design of the valve the dimensions of the sample container remain unchanged after separation. This combination of valve and sample tube makes the product particularly suitable for direct sampling.

The valve separator forms a physical barrier which prevents diffusion between the cell layer and sample during transport, analysis and storage.

Order Number	Description	Suitable for S-Monovette®-Ø	Packaging Pcs./Case
53.677*	Seraplas® V11	11 mm	5,000
53.419	Seraplas® V13	13 mm	1,000
53.428	Seraplas® V15	15 mm	1,000
53.420	Seraplas® V16	16 mm	1,000

Should subsequent centrifugation be required, the valve of the separator can be removed using a separate plunger (no.53.1030).

Order Number	Description	Suitable for	Packaging Pcs./Case
53.1030	Plunger	Valve filter V13, V15, V16	2,000

* Seraplas® V11 is supplied with separate plunger non-assembled.



Insert

In case of a small serum/plasma yield, this cup can be used in combination with S-Monovettes and sample tubes.

Order Number	Description	Suitable for	Packaging
73.1051	insert length 23.5 mm	S-Monovettes Ø 13 mm	500/bag 2,000/case
73.1052	insert length 23.5 mm	S-Monovettes and tubes Ø 15 mm	500/bag 2,000/case
73.1053	insert length 23.5 mm	S-Monovettes and tubes Ø 16 mm	500/bag 2,000/case
73.1052.001	insert length 32.0 mm	S-Monovettes Ø 15 mm	500/bag 2,000/case

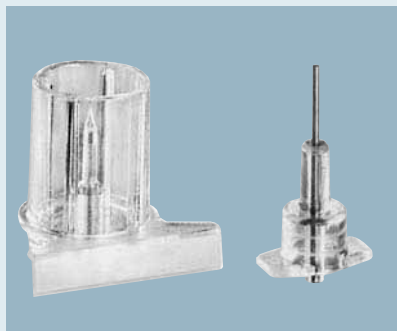


Carrier tube for S-Monovette® 1.2 ml

- ☐ Can be barcode labelled for safe sample identification
- ☐ Suitable for centrifugation

Order Number	Version	Packaging
55.1570	transparent	250/bag 1,000/case
55.1570.002	died brown for light protection	250/bag 1,000/case

Accessories for Blood Collection



Haemo-Diff®

- ☐ Obtain a blood droplet without opening the primary tube

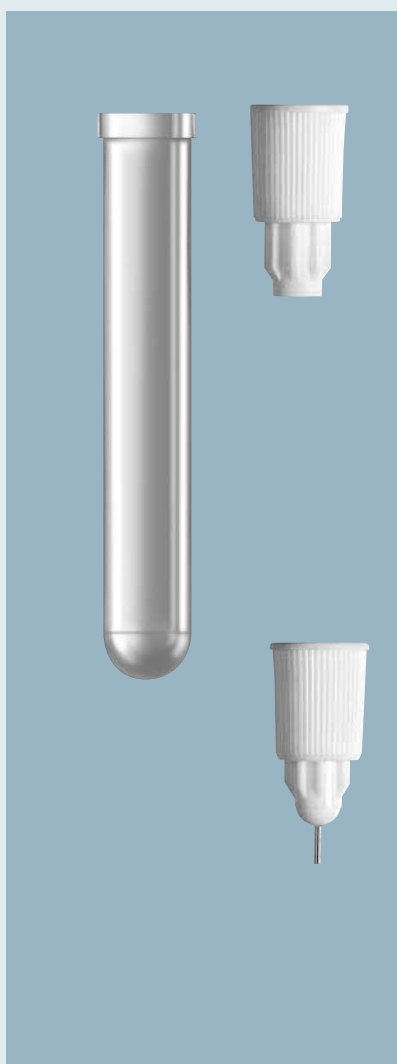
Order Number	Version	Packaging
14.1218	with smear edge	500/bag 2,000/case
14.1217	without smear edge	500/bag 2,000/case



Tourniquet for single-handed operation

- ☐ Comfortable and reusable

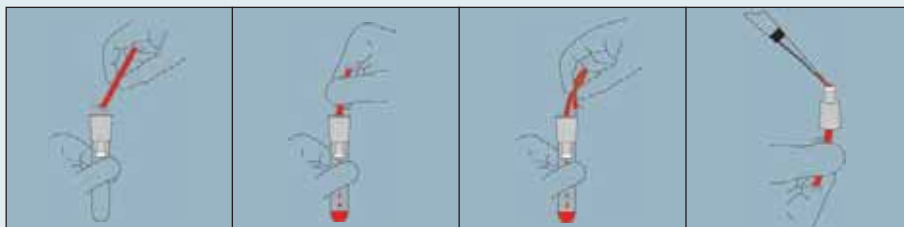
Order Number	Description	Packaging
95.1007	Tourniquet	1/bag 200/case
95.1007.001	Tourniquet latex-free	1/bag 200/case



Tube segment opener

- ☐ Easy access to tube segment samples
☐ Minimal risk of contamination

Safety and hygiene in your cross-matching laboratory



Order Number	Description	Packaging
95.1000	Tube Segment Opener	2,000/case
95.1000.476	T S O with tube 75 x 12, assembled	400/case, StackPack
95.1000.800	T S O for tube inner diameter 8.2 mm	2,000/case
55.476	Tube 75 x Ø 12 mm, PS	2,000/case, StackPack
55.476.005	Tube 75 x Ø 12 mm, PS	2,000/case
86.1509	Tube 75 x 11.5 mm, glass	2,352/case, StackPack

Tube segment opener for Bed Side Test cards



Order Number	Description	Packaging
95.1000.100	Tube segment opener for Bed Side Test	200 pcs./inner case 2,000 pcs./outer case

Accessories for Blood Collection



NEW

Cap for STAT Samples

- ☐ Colour-coding of STAT samples from ambulances, intensive care units and operating rooms
- ☐ Quick allocation of STAT samples at the laboratory bench
- ☐ Enables processing of tubes on many cap-piercing analyser systems

Order Number	Colour	Packaging
14.1513	hot pink	100/bag 1,000/case
14.1513.001	blue	100/bag 1,000/case

Anti-Evaporation for S-Monovettes and tubes

- ☐ Prevents concentration of serum/plasma during storage



NEW

Protective cover for block rack

- ☐ Optimal cover for D17 block rack, see p. 126

Order Number	Colour	Packaging Pcs./Case
93.857	light grey	25



Anti-Evaporation Cap for S-Monovette®

- ☐ Fits most 15 mm diameter S-Monovettes

Order Number	Colour	Packaging Pcs./Case
65.648	neutral	5,000



NEW

Universal Cap

- ☐ For S-Monovette® Ø 13 mm and tubes Ø 12 to 17 mm as the cap can be used in either orientation

Order Number	Colour	Packaging Pcs./Case
65.1379	neutral	10,000
65.1379.002	red	10,000
65.1379.004	yellow	10,000
65.1379.006	blue	10,000



NEW

Archiving Cap

- ☐ Suitable for tubes with Ø 13 to 16 mm

Order Number	Colour	Packaging Pcs./Case
65.647	light blue	5,000

S-Monovette® Rack made from Polypropylene



Rack D 13 with and without handles

NEW

Suitable e.g. for S-Monovettes and tubes from Ø 8 mm up to Ø 13 mm

Dimensions: (length x width x height) 180 x 96 x 45 mm
length including handles = 215 mm

Order Number	Colour	Handles	Packaging Pcs./Case
93.853	grey	without	16
93.855		with	12
93.853.131	red	without	16
93.855.131		with	12
93.853.132	yellow	without	16
93.855.132		with	12
93.853.133	green	without	16
93.855.133		with	12
93.853.134	blue	without	16
93.855.134		with	12
93.853.135	orange	without	16
93.855.135		with	12
93.853.200 double block rack connected at lateral ends	grey	without	8
93.853.300 double block rack connected at front ends	grey	without	8

Double block rack with 100 apertures

Two racks D 13 or D 17 can be connected either at their front or lateral ends to form one rack with 100 apertures. Very convenient for backup sample storage in freezers and refrigerators. Other colours to identify backup samples are available on request.

The universal block rack for a range of applications

- ☐ 50 apertures - 5 rows of 10 apertures each
- ☐ Available in three sizes, suitable for all S-Monovette® diameters and for tubes up to Ø 16.8 mm
- ☐ Various colours enable universal use and help to organise your laboratory
- ☐ Especially suitable for space-saving sample storage
- ☐ Autoclavable up to 121°C
- ☐ On request, the ends of the rack can be custom printed to requirements (minimum quantity 100 pcs., not racks with handles)
- ☐ The D13 and D17 Rack is also available with handles

Rack D 12

Suitable e.g. for S-Monovettes up to Ø 11 mm and for tubes up to Ø 12 mm

Dimensions: (length x width x height) 152 x 80 x 45 mm

Order Number	Colour	Order Number	Colour
93.854	grey	93.854.123	green
93.854.121	red	93.854.124	blue
93.854.122	yellow	93.854.125	orange

Packaging: 20 pcs./case

Rack D 17 with and without handles

Suitable e.g. for S-Monovettes up to Ø 16 mm and for tubes up to Ø 16.8 mm

Dimensions: (length x width x height) 209 x 109 x 45 mm
length including handles = 246 mm

Order Number	Colour	Handles	Packaging Pcs./Case
93.852	grey	without	20
93.851		with	12
93.852.171	red	without	20
93.851.171		with	12
93.852.172	yellow	without	20
93.851.172		with	12
93.852.173	green	without	20
93.851.173		with	12
93.852.174	blue	without	20
93.851.174		with	12
93.852.175	orange	without	20
93.851.175		with	12
93.852.168	brown	without	20
93.852.169	violet	without	20
93.852.170	white	without	20
93.852.200 double block rack connected at lateral ends	grey	without	16
93.852.300 double block rack connected at front ends	grey	without	12
93.851.200 double block rack connected at lateral ends	grey	with	6

Blood Collection and
Diagnostic Products

Capillary blood collection systems - As individual as your patients

Microvette® 100/200 –
Capillary blood collection

The Microvette® capillary blood collection system is designed to offer practical solutions for individual requirements. Choose between the Microvette® 100 and 200 with a conical or round bottom inner tube. For both versions the End-to-End capillary is preassembled and ready for use.

The Microvette® offers all the advantages of a modern capillary blood collection system:

- Assembled capillary for blood collection according to the End-to-End principle
- Special twist cap design is easy to open and minimizes aerosol effect
- Optimized tube geometry ensures thorough sample mixing
- Colour coded caps and print for easy identification of additives and volume
- Shelf life and batch number on each tube
- Can also be used without capillary for collection along tube rim.



Blood collection with assembled 100 µl or 200 µl End-to-End capillary



Assembled End-to-End capillary and graduation

Shelf life and batch number on each tube

Microvette® 100
100 µl sample volume, conical inner tube

Preparation	Order Number
Serum / Clotting activator	20.1280
Plasma / Lithium Heparin	20.1282

100 µl sample volume, round bottom inner tube

Preparation	Order Number
Haematology / Potassium EDTA	20.1278

Microvettes 100 are packaged in units of 100/box (1,000/case).

Microvette® 200
200 µl sample volume, conical inner tube

Preparation	Order Number
Serum / Clotting activator	20.1290
Plasma / Lithium Heparin	20.1292
Glucose / Fluoride	20.1289

200 µl sample volume, round bottom inner tube

Preparation	Order Number
Serum gel / Clotting activator	20.1291
Haematology / Potassium EDTA	20.1288

Microvettes 200 are packaged in units of 100/box (1,000/case).

Microvette® 300/500 –
Blood collection with
collection rim

The Microvette® tubes are ideal for the collection of blood using the gravity-flow principle of collection. Any part of the entire rim can be used. The special conical design of the Microvette® 300's inner tube enables thorough mixing, even with small sample volumes.

The Microvette® offers all the advantages of a modern blood collection system:

- Choice of different inner tube designs with 300 or 500 µl volume capacity and corresponding graduation
- Special twist cap design is easy to open and minimizes aerosol effect
- Cylindrical outer container is ideal for barcode or patient labels
- Shelf life and batch number on each tube



Simple peripheral blood collection thanks to special collection vessel



Sample volume 300 µl or 500 µl

Shelf life and batch number on each tube

Microvette® 300
300 µl sample volume, conical inner tube

Preparation	Order Number
Serum / Clotting activator	20.1308
Plasma / Lithium Heparin	20.1309
Glucose / Fluoride	20.1307

Microvette® 500
500 µl sample volume, round bottom inner tube

Preparation	Order Number
Serum / Clotting activator	20.1343
Serum gel / Clotting activator	20.1344
Plasma / Lithium Heparin	20.1345
Plasma / Lithium Heparin Gel	20.1346
Haematology / Potassium EDTA	20.1341

Microvettes 300/500 are packaged in units of 100/box (1,000/case).

Accessories

Description	Length/ø mm	Order Number
Carrier tube for Microvette®, transparent	75/13	55.525.003
Carrier tube for Microvette®, brown	75/13	55.525.002

Blood Collection and
Diagnostic Products

Capillary and venous blood collection in one system

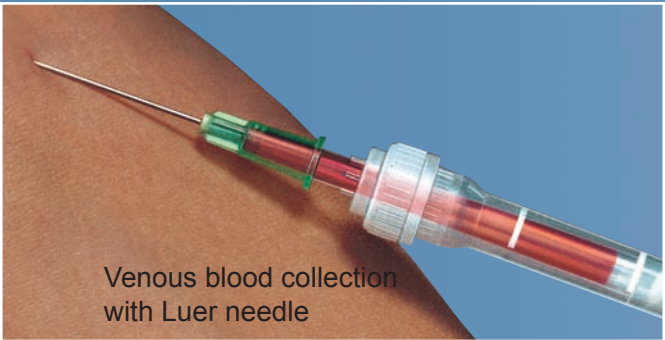
Multivette® 600

For venous blood collection, a Luer needle is connected to the capillary tube of the Multivette®. The special design enables self-filling of the inner tube by normal venous pressure.

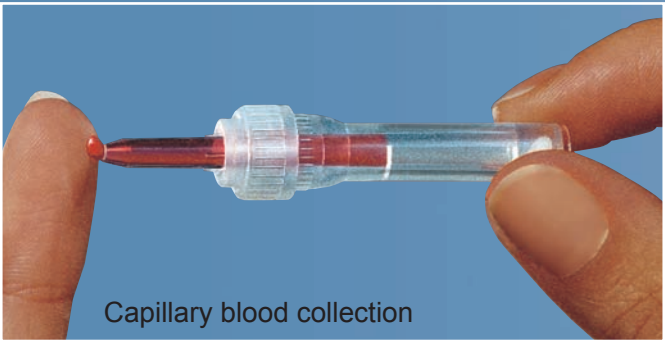
Hygienic and safe capillary blood collection is performed using the End-to-End principle. The special capillary tube is designed to hold a volume of 600 µl of capillary blood.

- Venous blood collection is performed by connection of a Luer needle* to the capillary tube of the Multivette®
- Hygienic and safe capillary blood collection according to the End-to-End principle
- Graduations ensure volume control
- Maximum volume 600 µl

*When collection blood with a Luer needle, make sure to remove the needle from the vein together with the assembled Multivette® after blood collection.



Venous blood collection with Luer needle



Capillary blood collection



The colour-coded cap and graduations eliminate the risk of sample mix-ups.

Multivette® 600
600 µl sample volume

Preparation	Order Number
Serum / Clotting activator	15.1670
Serum gel / Clotting activator	15.1674
Plasma / Lithium Heparin	15.1673
Plasma gel / Lithium Heparin	15.1675
Haematology / Potassium EDTA	15.1671
Glucose / Fluoride	15.1672

Multivettes are packaged in units of 100 (1,000/case).

Carrier tube for Multivette® 600

- Safe sample identification by application of patient-related or barcode labels
- Suitable for centrifugation
- Also available in brown (light protection)

transparent	Order Number:	55.1577
dyed brown	Order Number:	55.1577.002

The system for optimum serum/plasma recovery

Microvette® CB 300

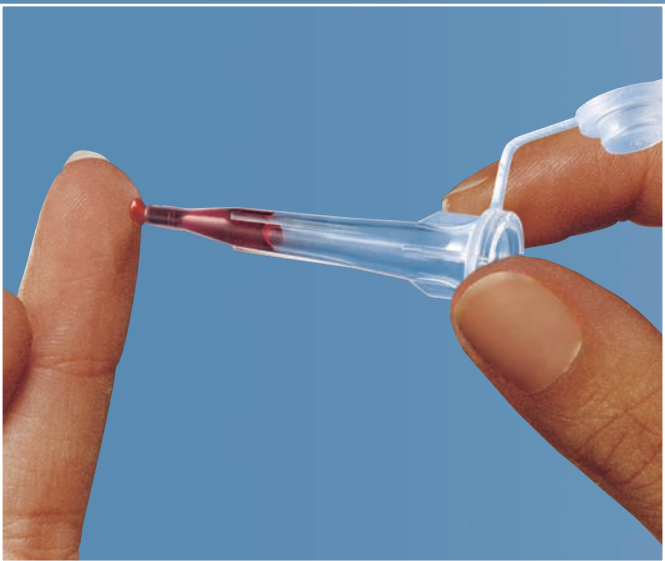
The capillary tube with push cap is supplied complete with a carrier tube that is also suited for transport and centrifugation.

After centrifugation, the capillary tube is sealed with the cap attached to the push cap.

The trumpet-shaped capillary tube ensures optimum serum/plasma recovery after centrifugation.

For efficient working in the laboratory, the capillary tube accommodated in its carrier tube can be placed directly into the analyser.

- Optimum serum/plasma recovery after centrifugation
- Two in one - sample container and centrifuge tube
- Compatible with different analysers as a primary tube for direct sampling



Easy sampling
Volumes up to 300 µl



Microvette® CB 300

Preparation	Order Number
Serum / Clotting activator	16.440
Serum / Clotting activator	dyed brown 16.441*
Plasma / Lithium Heparin	16.443
Plasma / Lithium Heparin	dyed brown 16.434*
Haematology / Potassium EDTA	16.444
Glucose / Fluoride	16.446

* Pigmented brown for bilirubin determination
Microvettes are packaged in units of 50 (1,000/case).

- Easy drawing off of the supernatant
- Optimum serum/plasma recovery after centrifugation
- Capillary tube supplied with carrier tube for sampling transport and centrifugation in one system

Microvette® CB 200 ESR/Safety-Lancet



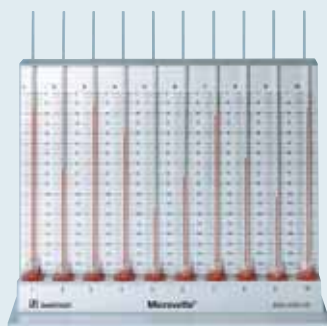
Microvette® CB 200 ESR

Measurement of sedimentation in capillary blood

The Microvette® CB 200 ESR preloaded with citrate comes with an attached stopper, an assembled and prepared end-to-end collection capillary, and a sedimentation capillary.

- ☐ Proven to perform well in comparison with the Westergren method
- ☐ Collection volume of only 200 µl ensures minimum patient discomfort

Order Number	Description	Packaging Pcs./Case
18.1325	Microvette® CB 200 ESR	500



ESR Rack

The ESR racks with graduated back wall and 10 measurement positions has been specially designed for the Microvette® CB 200 ESR.

ESR Rack for the Microvette® CB 200

Order Number: 90.1091



Safety-Lancet **NEW**

For safe capillary blood collection and increased patient comfort

The new Safety-Lancet is primed and ready for use.

It reduces the risk of needle injury and cross contamination because the needle point or blade is concealed both before and after use.

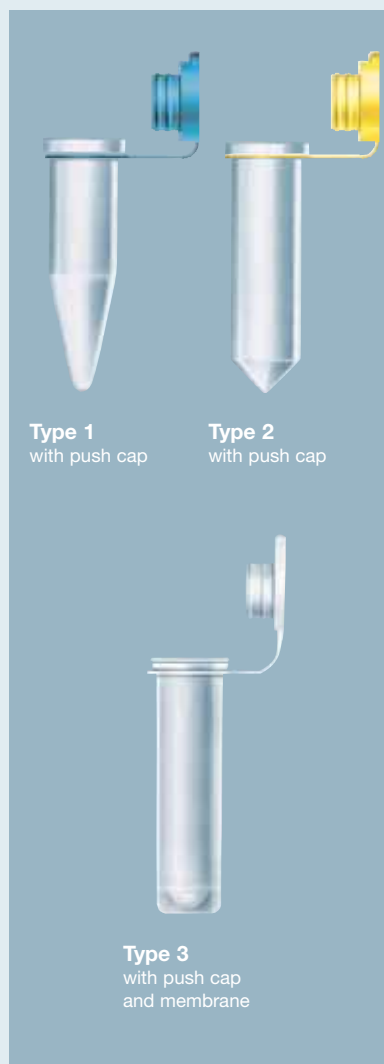
The sterile device is for single-use only and can be safely discarded.

A range of penetration depths and widths are available to accommodate various volume requirements and skin types, ensuring optimum blood flow.

- ☐ User and patient safety
- ☐ Patient comfort
- ☐ Designed for targeted blood flow

Order Number	Penetration depth (mm)	Type and Size	Volume of blood	Packaging
85.1015.050 Mini	1.6	28 G	low	200/box 1,200/case
85.1016.050 Normal	1.8	21 G	medium	200/box 1,200/case
85.1017.050 Extra	1.8	18 G	medium to high	200/box 1,200/case
85.1018.050 Super	1.6	blade approx 1.50 mm wide	high	200/box 1,200/case
85.1019.050 Neonatal	1.2	blade approx 1.50 mm wide	medium to high	200/box 1,200/case

Prepared Micro Tubes



For glucose and HbA_{1c} determination

Prepared with deproteiniser haemolysis or system solution for ESAT

The predosed volume can be checked at any time thanks to the printed control mark.

Tubes are packed with 100 pieces in PE bags.

Order Number	Closure Colour Preparation	Volume Capillary	Type	Packaging Pcs./Case
42.387.916	blue perchloric acid	500 µl/50 µl	1	1,000
42.387.913	blue perchloric acid perchlorate	400 µl/40 µl	1	1,000
41.1438.904	yellow haemolysis solution (Sarstedt)	1,000 µl/20 µl	2	1,000
41.1178.903	neutral haemolysis solution (DiaSys)	1,000 µl/20 µl	2	1,000
41.1438.901	neutral haemolysis solution (Roche Gen.2)	500 µl/20 µl	3	1,000
41.1443.904	yellow haemolysis solution (ESAT)	1,000 µl/20 µl	3	1,000
41.1496.911	black haemolysis solution HbA _{1c} (Roche)	1,000 µl/10 µl	2	1,000



Prepared tubes for direct adaptation to special analysers

Order Number	Preparation	Volume Capillary	Length/Ø mm	Description	Packaging Pcs./Case
45.498.003	haemolysis solution for glucose-determination (Sarstedt)	1,000 µl/20 µl	92/15.3 (round base)	Tube with conical false bottom	495
47.409.001	haemolysis solution Tinaquant® for HbA _{1c} determination (Roche)	1,000 µl/10 µl	66/11.5	Tube for Cobas Integra® 800 from Roche with Cap Piercing	500

Prepared Micro Tubes



Glass End-to-End capillaries

Order Number	Volume	Preparation
19.414	10 µl	NH ₄ -Heparin
19.447	20 µl	Potassium-EDTA
19.451	40 µl	NH ₄ -Heparin
19.418	50 µl	NH ₄ -Heparin

Packaging: 100 pcs./box

For the safe and easy handling of End-to-End capillaries we recommend our specially designed holder (see illustration).

Order Number: 95.1048

Packaging: 5 pcs./bag



Micro Tubes with attached PE push cap closure

- ☐ Sample volume 1.3 ml
- ☐ Skirted, conical base
- ☐ Label

Packaging: 1,000 pcs./case

Dimensions:

Length 40 mm

Ø 10.8 mm

Preparations

Serum Clotting Activator	Serum-Gel Clotting Activator	Plasma Lithium Heparin	Haematology Potassium EDTA	Coagulation Citrate
41.1501.005	41.1500.005 1.1 ml	41.1503.005	41.1504.005	41.1506.005 1.3 ml 41.1506 1.0 ml 41.1506.002 0.5 ml with transparent label



Micro Tubes with screw cap closure

- ☐ Closure contains integral O-ring
- ☐ Sample volume 1.3 ml
- ☐ Skirted, conical base
- ☐ Label

Packaging: 1,000 pcs./case

Dimensions:

Length 45 mm

Ø 10.8 mm

Special racks for use with screw cap micro tubes see pp. 126-128.

Preparations

Serum Clotting Activator	Serum-Gel Clotting Activator	Plasma Lithium Heparin	Haematology Potassium EDTA	Glucose Fluoride	Coagulation Citrate
41.1392.005	41.1378.005 1.1 ml	41.1393.005	41.1395.005	41.1394.005	41.1350.005 1.3 ml 41.1350.002 1.0 ml

Prepared Blood Tubes

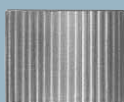
Skirted cap versions
are available prepared
with EDTA and Glucose
Fluoride (exception:
tube 100 x ø 13 mm).



Tube with
push cap



Tube with
skirted cap



Tube with
screw cap



Tube with
pierceable
membrane

Blood tubes with round and flat base from polypropylene, with push cap and label and print

Volume ml	Order Number Description	Preparation	Length/Ø mm	Packaging Pcs./Case
10	26.367 26.323 without print	Serum Clotting Activator	95.0 x 16.8	1,000
	26.369	Plasma Lithium Heparin		
	26.358	Haematology Potassium EDTA		
10	28.364 without print	Serum Clotting Activator	100.0 x 15.7	1,000
7	29.373.004	Serum Clotting Activator	100.0 x 13.0	1,000
	29.376 without print	Haematology Potassium EDTA		
5	32.329 4.5 ml	Serum Clotting Activator	75.0 x 13.0	1,000
	32.311.001 4.4 ml	Serum gel Clotting Activator		
	32.331 4.5 ml	Plasma Lithium Heparin		
	32.332	Haematology Potassium EDTA		
	32.333 2.0 ml	Glucose Fluoride		
	32.525.326	Coagulation Citrate		500
5	34.343 34.343.001 2.0 ml	Haematology Potassium EDTA	50.0 x 16.0 with flat base	1,000
4	36.350 without print	Serum Clotting Activator	75.0 x 12.0	2,000
	36.336	Plasma Lithium Heparin		
	36.338	Haematology Potassium EDTA		
	36.339 2.0 ml	Glucose Fluoride		
2	38.346	Haematology Potassium EDTA	55.0 x 12.0	2,000

Blood tubes with round and flat base from polypropylene, with screw cap and label

Volume ml	Order Number Description	Preparation	Length/Ø mm	Packaging Pcs./Case
10	46.361 without label	Serum Clotting Activator	101.0 x 16.5	1,000
10	46.390.001	Serum Clotting Activator	101.0 x 16.5 with flat base	1,000
	46.363.001	Plasma Lithium Heparin		
5	49.354.001	Plasma Lithium Heparin	57.0 x 16.5 with flat base	1,000
	49.355.001	Haematology Potassium EDTA		
	49.359.001 2.0 ml	Glucose Fluoride		
	49.396.812 2.0 ml	Coagulation Citrate		300
2	47.556 3.0 ml with print	Haematology Potassium EDTA with pierceable membrane	66.0 x 11.5 with flat base	2,000
	47.410 with print	ESR Citrate suitable for Sediplus®		500

Efficient sample processing in your urine laboratory



Urine Monovette® for hygienic urine collection, transport and analysis

Three functions combined in one product:

1. Hygienic urine collection

Urine can be collected from a sample container by connecting the suction tip and withdrawing the piston

2. Vessel for test strips

The test strip, e.g. Combur9-test, can be immersed directly into the filled Urine Monovette® for urine analysis

3. Centrifuge tube for sedimentation

The Urine Monovette® can be placed into a centrifuge for sedimentation

Volume ml	Order Number	Tube Length/ Ø in mm	Description	Packaging Pcs./Case
8.5	10.258	92/15	-	500
10	10.252	102/15	-	500
10	10.252.001	102/15	paper label	500
10	10.252.030	102/15	white, UV light protection	500
10	10.252.020	102/15	ind. wrapped, sterile	500
10	10.252.015	102/15	50 pieces sub-packaged	500



Urine Monovette® with stabiliser

for bacteriological urine analysis


- ☐ The Urine Monovette® prepared with boric acid effectively stabilises micro organisms from sample collection to analysis
- ☐ The bacteriostatic effect of boric acid on the most important causes of urinary tract infections has been proven
- ☐ Urine collection and sample transport in one container


Volume ml	Order Number	Tube Length/ Ø in mm	Description	Packaging Pcs./Case
10	10.253	102/15	-	500
10	10.253.001	102/15	paper label	500
10	10.253.020	102/15	ind. wrapped, sterile	500

Conical Urine Tubes



Tubes with conical base, push cap

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
12	57.462 PS with graduation 57.527 PP with graduation	110	17	1,000	65.793 65.816
12	57.464 PS 57.513 PP	105	16.8	1,000  1,000	65.793 65.816 65.720
10	57.469 PS 57.519 PP not illustrated	95	16.8	1,000	65.793 65.816 65.720

 in the practical and space-saving Sarstedt StackPack

Tube with conical base, push cap assembled, sterile

Volume ml	Order Number Material	Length mm	Ø mm	Packaging	Description
12	57.464.001 PS	105	16.8	100/bag 500/case	sterile



Tubes with conical base, screw cap, graduation and writing space

Volume ml	Order Number Material	Length mm	Ø mm	Packaging	Description
15	62.554.001 PP not illustrated	120	17	50/bag 500/case	red cap, assembled
15	62.554.502 PP not illustrated	120	17	50/bag 500/case	red cap, assembled, sterile, non-pyrogenic
15	62.553.041 PS not illustrated	120	17	50/bag 500/case	yellow cap, assembled
15	62.553.542 PS not illustrated	120	17	50/bag 500/case	yellow cap, assembled, sterile, non-pyrogenic
10	62.9924.283 PP	100	16	1,000/case	neutral cap, enclosed
10	62.9924.284 PP	100	16	100/bag 1,000/case	yellow cap, assembled, sterile

30 and 50 ml tubes with screw cap and conical base see pp. 50 and 51
Tubes 120 mm x Ø 17 mm see p. 50

PS tubes with conical, skirted base, screw cap

Volume ml	Order Number Material	Length mm	Ø mm	Packaging	Description
10	60.9921.821 PS	97	16	1,000/case	neutral cap, enclosed
10	60.9921.830 PS	97	16	100/bag 1,000/case	yellow cap, assembled
10	60.9921.829 PS	97	16	100/bag 1,000/case	yellow cap, assembled, sterile

PS = polystyrene transparent, PP = polypropylene transparent/translucent
* Caps see pp. 57-58

Urine Containers



3.0 Litre Urine container with assembled yellow cap

- ☐ Filling volume 3,000 ml
- ☐ Ergonomically shaped for safe handling
- ☐ Large opening diameter
- ☐ Transparent inspection strip

Order Number	Volume	Description	Packaging Pcs./Case
77.575	3.0 Litre	self adhesive label enclosed	30

Self adhesive label for urine containers 77.575 and 77.580

- ☐ Single, with instructions for the collection of 24 hour urine

Order Number	Description	Packaging
84.1402.001	Size: 150 x 55 mm	300/box (10 x 30/bag) 1,800/case



Urine container from polyethylene with assembled yellow cap

Order Number	Volume	Description	Packaging Pcs./Case
77.580	2.0 Litre	self adhesive label enclosed	30

Self adhesive label for urine containers 77.580 and 77.575

- ☐ Single, with instructions for the collection of 24 hour urine

Order Number	Description	Packaging
84.1402.001	Size: 150 x 55 mm	300/box (10 x 30/bag) 1,800/case



Urine containers from polyethylene with black screw cap

Order Number	Volume	Description	Packaging Pcs./Case
77.582	0.5 Litre	brown translucent	100
77.577	0.25 Litre	white	120



500 ml
collection cup



stabilizer

NEW



30 ml
transport tube

NEW



10 ml
Urine Monovette®
white

UriSet 24

Complete set for standardised and patient-friendly
24 hour urine collection

Urine container -

Completely new 3,000 ml container with ergonomically shaped, wide 80 mm ø opening and transparent inspection strip for optimal volume reading.

Receptacle -

500 ml cup enables patient-friendly urine collection and transfer from the urine container into the transport tube.

Stabilizer -

A glass bottle with integral safety dropper contains 9 ml of 20% hydrochloric acid concentration, requiring no additional working steps and providing improved patient safety. The amount and concentration of hydrochloric acid has been dosed to ensure optimal stabilisation of the urine for up to 7 days for the analysis of catecholamines, metanephridines, homovanillic acid and 5-hydroxyindole-acetic acid. This long-term stability at room temperature enables the collection of urine samples at the laboratory and collective processing per batch.

Transport tube or Urine Monovette®

Only the enclosed 30 ml tube or Urine Monovette® is transported to the doctor or the laboratory while the urine container is discarded by the patient. The system reduces the waste volume at the doctor's practice or laboratory. A self-adhesive label for reliable patient identification is enclosed with the transport tube.

UriSet 24

Order Number	Description	Packaging Pcs./Case
77.578	with stabiliser and 30 ml transport tube	30
77.578.252	with stabiliser and white Urine Monovette®	30
77.578.010	without stabiliser with white Urine Monovette®	30

500 ml urine collection cup

Order Number	Length mm	Opening Ø mm	Packaging Pcs./Case
75.1356	148	80	250

Transport tube

Order Number	Volume	Length mm	Description	Packaging Pcs./Case
10.252.030	10 ml	102 / 15	Urine Monovette® white	500
62.543.030	30 ml	107 / 25	white tube with screw cap	500

Urine Containers and Tubes

with and without snap-on lid



250 ml container, polystyrene, white

Order Number	Length mm	Aperture Ø mm	Packaging Pcs./Case
75.560	100	73	500
Snap-on lid, polystyrene			
76.561	-	-	500



125 ml container, polypropylene, neutral

Order Number	Length mm	Aperture Ø mm	Packaging Pcs./Case
75.565	85	62	500
Snap-on lid, polypropylene			
76.566	-	-	2,000



125 ml container, polypropylene, highly transparent

Order Number	Length mm	Aperture Ø mm	Packaging
75.1355 75.1355.100	67	66	1,000/case 100/bag/1,000/case

Snap-on lid, polyethylene, red

Order Number	Description	Pcs./Bag	Packaging
76.1477 76.1477.100 76.1414 76.1414.100	with spout with spout without spout without spout	1,000 100 1,000 100	1,000



100 container, polystyrene, white

Order Number	Length mm	Aperture Ø mm	Packaging Pcs./Case
75.570	49	70	1,000
Snap-on lid, polystyrene			
76.571	-	-	1,000



500 ml container, polypropylene

For collection of complete urine quantities

Order Number	Length mm	Aperture Ø mm	Packaging Pcs./Case
75.1356	148	80	250

Urine Containers and Tubes

with screw cap



NEW

100 ml container, polypropylene, neutral, screw cap from green polyethylene

Order Number	Length/Ø mm	Description	Packaging
75.1354.001	74/58	Container with enclosed lid	500/case

100 ml containers, polypropylene, neutral screw cap from neutral HD-PE

Order Number	Length/Ø mm	Description	Packaging
75.563	72/62	container without cap	50/bag 500/case
76.564	14/76	cap	50/bag 500/case
75.562.105	73/62	container with cap assembled, sterile with safety label	5/bag 200/case
75.562.005	73/62	container with cap assembled	5/bag 200/case
75.562.300	72/62	container with enclosed cap	50/bag 300/case

100 ml container with screw cap, brown

Safe light protection for urine samples, e.g. light-sensitive crosslinks with deoxy-pyridinoline assays

75.562.011	72/62	cap and container brown, lid enclosed	50/bag 250/case
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Safety label ensures sterility prior to use and provides a convenient writing space

70 ml container assembled with yellow screw cap

- ☐ Highly-transparent PP container, reliable sealing with HD-PE closure
- ☐ For universal use

Order Number	Volume ml	Length/Ø mm	Description	Packaging Pcs./Case
75.9922.744	70	55/44	assembled cap	500
75.9922.745	70	55/44	assembled cap, with standard label	500
75.9922.721	70	55/44	assembled cap, sterile, ind.wrapped, with standard label	100



Tubes with conical base and screw cap

Order Number	Volume ml	Length/Ø mm	Description	Packaging Pcs./Case
62.543 PP with printed graduation	30	107/25	assembled cap	500
62.543.001 PP with printed graduation	30	107/25	assembled cap, sterile	400
60.9922.241 PP	25	90/25	assembled cap	500
63.9922.252 PP	25	90/25	assembled cap, with label	500
60.9922.243 PP	25	90/25	yellow cap, sterile	500
63.9922.254 PP	25	90/25	yellow cap, with label, sterile	500
60.732 PP	15	76/20	enclosed cap	500
60.732.001 PP	15	76/20	assembled cap, sterile	500



PP = polypropylene, HD-PE = High Density polyethylene

Faeces Containers



Containers with screw cap

Order Number	Length/Ø mm	Tube Material	Description	Packaging Pcs./Case
80.622	107 / 25	PP	sterile	400
80.622.111	107 / 25	PP	non-sterile	500
80.623	101 / 16.5	PP	sterile	500
80.623.111	101 / 16.5	PP	non-sterile	500
80.734.001	76 / 20	PP	sterile	500
80.734	76 / 20	PP	non-sterile	500
80.734.311	76 / 20	PP	sterile, with label	500
80.734.301	76 / 20	PP	non-sterile, with label	500
80.734.401	76 / 20	PP white	non-sterile, with label	500

Appropriate mailing containers for faeces tubes are shown on pp. 118-120.
All containers are available with individual print or label on request.

Faeces containers with flat base and push cap (not illustrated)

Order Number	Length/Ø mm	Tube Material	Description	Packaging Pcs./Case
80.621	75 / 23.5	PS	sterile	250
80.620	75 / 23.5	PS	non-sterile	500



Tube with screw cap for collection of a defined faeces sample

This faeces tube enables a clean and simple separation of a defined faeces sample of 1 ml, approx. 1 g.

The spoon has a capacity of 1 ml, any excess is removed with the enclosed spatula.

The spoon is fixed to the cap and projects down the middle of the tube.

This construction enables centrifugation and separation of a supernatant without disturbance on opening.

Example:

Immunological procedure for the determination of occult blood

When adding e.g. 2 ml distilled water to the faeces tube, a suspension is produced by simple mixing. After centrifugation, proteins such as human haemoglobin and albumin can be analysed from the supernatant by means of immunological procedures.

Literature on this procedure is available on request.

Order Number	Length/Ø mm	Tube Material	Description	Packaging Pcs./Case
80.623.022	101 / 16.5	PP	faeces tube incl. of spatula	1,000

PS = polystyrene transparent, PP = polypropylene

Faeces Containers/Miscellaneous Tests

NEW

25 ml and 70 ml Faeces Containers

The 25 and 70 ml containers are manufactured from robust, white polypropylene. The brown screw cap includes an integral sampling scoop. The containers are primarily used for the collection of faeces samples for pathology. They are also very convenient for the collection of grain and soil samples.

Order Number	Material	Volume ml	Length/Ø mm	Description	Packaging Pcs./Case
80.9924.027	PP	70	55/44	white with brown cap, label	500
80.9924.014	PP	25	54/28	white with brown cap, label	500



Thrombo Plus® for direct platelet counting

- ☐ Simple and quick
- ☐ Accurate counting of platelets even with low numbers
- ☐ Reagent pipetting avoided to exclude contamination
- ☐ Eliminates requirement for erythrocyte or leucocyte pipettes
- ☐ Eliminates requirement for humidity chamber
- ☐ Platelets appear as bright discs during microscopy
- ☐ Sample is stable for at least 24 hours at 4°C

Thrombo Plus®

Order Number	Length/Ø mm	Packaging Pcs./Case
51.334	75/11.5	500



End-to-End capillaries prepared with potassium EDTA

Order Number	Volume	Packaging Pcs./Box
19.447	20 µl	100

Micro tube for reticulocyte counting

Each tube is pre-dosed with 100 µl of 1 % brilliant-cresyl-blue stain solution. This preparation is suitable for the addition of 100 µl of venous blood anticoagulated with EDTA. After a reaction time of 20-30 minutes, the smear can be made.

Micro tube with 100 µl brilliant-cresyl-blue

Order Number	Material	Packaging Pcs./Case
42.117	polypropylene	250





Saliva collection is easily carried out by chewing a cotton wool swab. Recovery of the saliva sample is achieved by returning the swab to the Salivette® and centrifuging the container. A clear, fluid sample is obtained which can be used for analysis.

Areas of application:

Saliva examination is a useful aid in the diagnosis, therapy and control of numerous conditions.

- ☐ Economical
Sampling can be effected at home without any specialised training
- ☐ Patient acceptability
Sampling is painless and can be repeated without distress.
- ☐ Transportation
The Salivette® enables easy and safe transportation.
- ☐ Hygienic
The concept of the Salivette® guarantees a clean and hygienic saliva sample.
- ☐ Sample quality
After centrifugation a clear, fluid sample is obtained for analysis. Freezing, which is often required prior to analysis of saliva samples collected by other methods, is not necessary.

Order Number	Length/ Ø mm	Version	Packaging
51.1534	97/16.8	cotton swab without preparation	500/case (100/bag)
51.1534.001	97/16.8	cotton swab with citric acid preparation	500/case (100/bag)
51.1534.500	97/16.8	synthetic swab for cortisol determination	500/case (100/box)

NEW



Test for the detection of occult blood in faeces based on the chromagen Guaiac resin



☐ Eliminates risk of mix-ups

One Hemoplus® test card contains all 12 test positions. The risk of mix-ups with other test cards is excluded.

☐ Balanced sensitivity

Hemoplus® will not detect normal physiological blood loss. The test sensitivity has been established to be within the range required for colo-rectal cancer screening.

The test principle is based on the pseudo-peroxidase activity of haemoglobin which may be present in faeces. The 12 test positions on each test card contain chromatographic filter paper impregnated with distilled Guaiac resin as an indicator. A stabilised alcoholic hydrogen peroxide solution acts as a developing reagent.

Haemoglobin will catalyse the oxidation of the chromogen Guaiac resin in the presence of hydrogen peroxide to form a blue-coloured compound.

Contents of kit

1 Hemoplus® kit contains:

50 patient tests (one test card and 12 cardboard spatulae per envelope)

Two 30 ml bottles of developing reagent

Detailed instructions for use

☐ Variable application

Each test card is divisible into 3 separate sections which allows Hemoplus® to be used for individual patient tests as well as for multiple testing.

☐ Test confidence

The recommended use of four test positions for each investigation increases the probability of detecting a positive result in a non-homogenous faeces sample.

☐ Simple analysis

A positive result is clearly indicated by a blue colouration which is stable for at least 60 seconds.

Hemoplus® kit

Order Number: 51.1444.001

(one kit contains 50 x 3 tests)



Laboratory Products

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Reagent and Centrifuge Tubes



Reagent and centrifuge tubes in compact StackPack

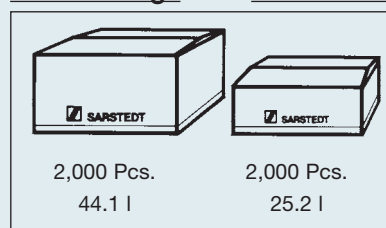
All tubes marked  are supplied in the advantageous space saving StackPack version.

These tubes can also be supplied "loose in bags". By adding a .005 to the article number you will get the order number (e.g. 55.476.005 = 75/12 PS loose).






Comparison of packing volume:

loose in bags


StackPack



Tubes with round base, push cap

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
30	55.517 PP	95	24.8	500	65.791
26	55.471 PS	87	23.5	500	65.790
20	55.465 PS 55.514 PP	100	21.5	500 1,000	65.529
16.5	55.460 PS 55.510 PP	130	17	1,000	65.793 65.816 65.720
14	55.461 PS 55.511 PP	119	15.5	1,000	65.793 65.816 65.720
14	55.463 PS 55.538 PP	105	16.8	1,000  1,000	65.793 65.816 65.720
13	55.459 PS 55.515 PP	100	16	1,000	65.793 65.816 65.725 *2
13	55.468 PS 55.468.005 PS 55.518 PP	95	16.8	1,000  1,000 1,000	65.793 65.816 65.720
13	62.492 PS with writing space	95	16.8	1,000	65.793 65.816 65.720
13	55.520 LD-PE	88	17	1,000	65.521
11.5	55.466 PS 55.466.005 PS 55.539 PP 55.539.250 PP	100	15.7	1,000  1,000 1,000 1,000 	65.803 65.802 65.727
11	55.474 PS 55.524 PP	82	16.8	1,000	65.793 65.816 65.720
9	55.481 PS 55.533 PP	67	16.8	2,000	65.793 65.816 65.720
8.5	55.495 PS 55.598 PP	75	15.7	2,000	65.803 65.802 65.727
8	55.467 PS 55.467.005 PS 55.516 PP	100	13	2,000  2,000 2,000	65.806 65.818 65.724
8	55.473 PS 55.523 PP	84	14.5	2,000	65.804
7	55.482 PS	65	15.7	2,000	65.803 65.802 65.727
6.5	55.472 PS 55.522 PP	85	13	2,000	65.806 65.818 65.724

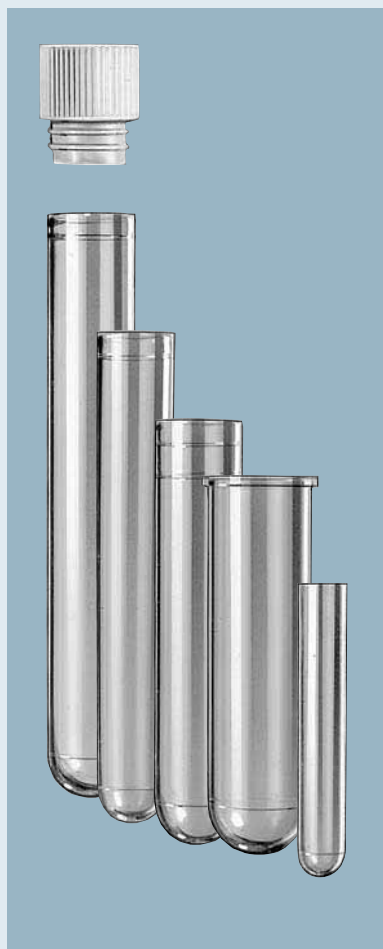
PS = polystyrene, transparent, PP = polypropylene, LD-PE = Low Density polyethylene

 = StackPack















* caps are shown on pp. 57 - 58

*2 Cap 65.725 is only suitable for 100 x 16 tubes from PP and not for tubes from PS.

Reagent and Centrifuge Tubes



Tubes with round base, push cap

Volume ml	Order Number	Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
5	55.475	PS	75	13	2,000 	65.806 65.818 65.724
	55.475.005	PS			2,000 	
	55.525	PP			2,000 	
	55.525.005	PP			2,000 	
5	62.493	PS with writing space	75	13	2,000	65.806 65.818 65.724
5	55.476	PS	75	12	2,000 	65.809 65.719
	55.476.005	PS			2,000 	
	55.526	PP			4,000 	
	55.526.005	PP			4,000 	
5	62.476.022	PS with writing space	75	12	2,000	65.809 65.719
4	55.478	PS	75	11.5	2,000 	65.809 65.719
	55.478.005	PS			2,000 	
	55.532	PP			2,000 	
4	55.655	PS	50	14	3,000	65.804.001
	55.705	PP				
3.5	55.484	PS	55	12	4,000 	65.809 65.719
	55.484.005	PS			4,000 	
	55.535	PP			5,000 	
3	55.528	PP	75	10	2,000	65.782
2.5	55.483	PS	63	11	5,000	65.782
	55.534	PP				
0.5	55.673	PS	38	6.5	5,000	-

Laboratory Products




Tubes with round base, push cap assembled, sterile

Volume ml	Order Number	Material	Length mm	Ø mm	Packaging Pcs./Case	Cap Colour
13	55.468.001	PS	95	16.8	500	neutral
5	55.475.001	PS	75	13	1,000	neutral
3.5	55.484.001	PS	55	12	2,000	neutral

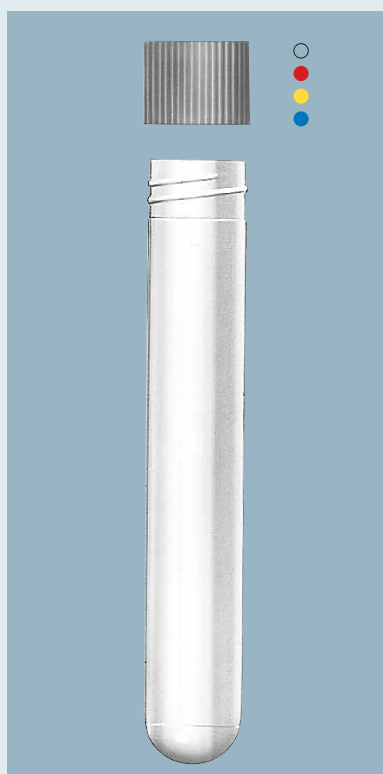
Further tube sizes with assembled push cap, sterile, are available on request.

PS = polystyrene, transparent, PP = polypropylene

 = StackPack

* caps are shown on pp. 57 - 58

Reagent and Centrifuge Tubes



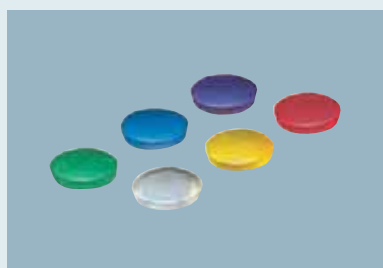
Tubes with round base from PP screw cap in different colours from HD-PE

Volume ml	Order Number	Material	Length/Ø mm	Packaging Pcs./Case	Cap Colour	Description
13	60.541.500 60.541.003 60.541.929 60.541.021	PP PP PP PP	101/16.5	1,000	neutral red yellow blue	cap enclosed
13	60.541.545	PP	101/16.5	1,000 100/bag	neutral	cap assembled
13	60.540.500 60.540.022 60.540.014 60.540.052	PP PP PP PP	101/16.5	500	neutral red yellow blue	cap assembled, sterile

Tubes with round base from PP, screw cap from PP, with O-ring

☐ Tube with cap* autoclavable at 121° C, important notes on autoclaving: see p. 163

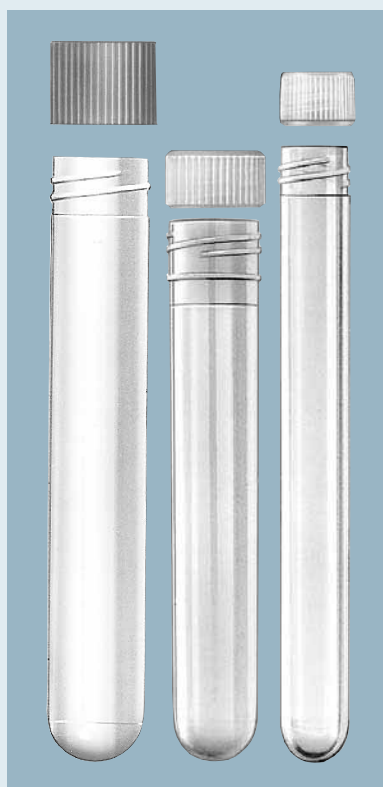
Volume ml	Order Number	Material	Length/Ø mm	Packaging Pcs./Case	Cap Colour	Description
13	60.541.004	PP	101/16.5	1,000	neutral	cap enclosed
13	60.540.016	PP	101/16.5	500	neutral	cap assembled, sterile



Coloured inserts for screw caps of tubes Ø 16.5 and Ø 15.3

(not suitable for screw cap with O-ring (Ø 16,5))

Colour	Order Number for tube Ø 16.5 mm	Order Number for tube Ø 15.3 mm	Colour	Order Number for tube Ø 16.5 mm	Order Number for tube Ø 15.3 mm
white	65.744	65.1188.009	green	65.744.004	65.1188.005
red	65.744.001	65.1188.002	violet	65.744.005	
yellow	65.744.002	65.1188.004	orange		65.1188.003
blue	65.744.003	65.1188.006	black		65.1188

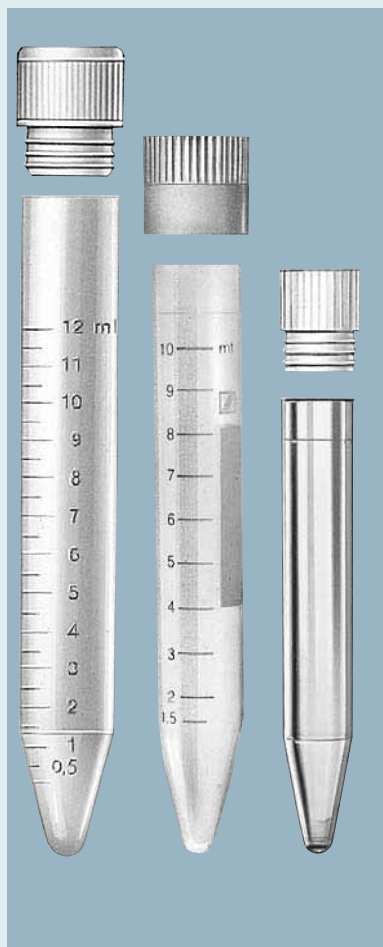


Tubes with round base from PP, screw cap from HD-PE



Volume ml	Order Number	Material	Length/Ø mm	Packaging Pcs./Case	Cap Colour	Description
10	60.610	PP	92/15.3	1,000	neutral	cap enclosed
10	60.610.001	PP	92/15.3	500 100/bag	neutral	cap assembled, sterile
10	60.610.100	PP	92/15.3	1,000 100/bag	neutral	cap assembled
10	60.506 not illustrated	PP	79/16	1,000 500/bag	neutral	cap enclosed
10	60.506.001 not illustrated	PP	79/16	1,000 500/bag	neutral	cap assembled, sterile
7	60.550.100	PP	82/13	1,000	neutral	cap enclosed
7	60.550.109	PP	82/13	1,000	neutral	cap assembled, sterile
6	60.546	PP	92/11.5	1,000	neutral	cap enclosed
6	60.546.002	PP	92/11.5	1,000	neutral	cap assembled, sterile
4.5	60.557 not illustrated	PP	75/12	2,000	neutral	cap enclosed
4.5	60.557.001 not illustrated	PP	75/12	1,000	neutral	cap assembled, sterile

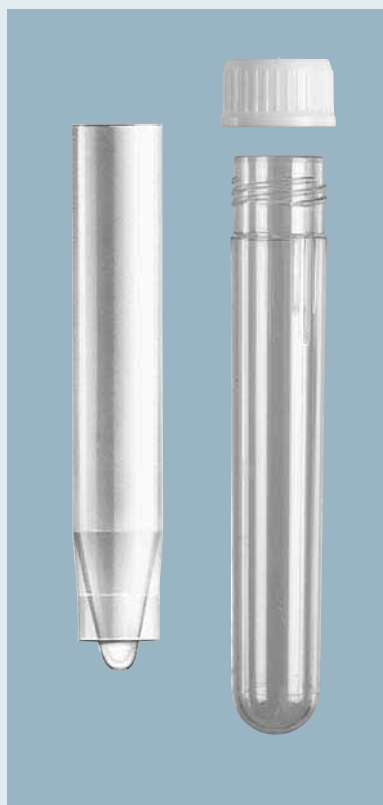
* Do not seal the cap tightly when autoclaving; PP = polypropylene, HD-PE = High Density polyethylene

Reagent and Centrifuge Tubes



Tubes with conical base, push cap

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
12	57.462 PS 57.527 PP with graduations	110	17	1,000 1,000	65.793 65.816
12	57.464 PS 57.513 PP not illustrated	105	16.8	1,000  1,000	65.793 65.816 65.720
12	57.464.001 PS sterile not illustrated	105	16.8	500	cap assembled, sterile
10	62.9924.272 PP with graduation and writing space	100	16	1,000	65.793 65.816 65.720
10	62.9924.273 PP with graduation and writing space	100	16	1,000	cap 65.720 enclosed
10	62.9924.274 PP with graduation and writing space	100	16	1,000 100/bag	yellow cap, assembled, sterile
10	57.469 PS 57.519 PP	95	16.8	1,000	65.793 65.816 65.720
4.5	57.477 PS 57.512 PP	75	12	2,000  4,000	65.809 65.719



Conical tube for Pharmacia/LKB Gamma Counter and Gamma Counter Cobra of Packard

- ☐ With conical base for optimum sediment recovery
- ☐ Transparent polypropylene
- ☐ Suitable for all rack and instrument types, old and new

Compatible with the following Pharmacia/LKB instruments:


1270 – Rackgamma	(rack type 1270-132)	1277 – Gammamaster	(rack type 1277-150)
1271 – Riagamma	(rack type 1270-132)	1260 – Multigamma	(no racks)
1272 – Clinigamma	(rack type 1270-142)	1261 – Multigamma	(no racks)
1275 – Minigamma	(rack type 1270-132)	1282 – Compugamma	(rack type 1282-131)

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
4.5	57.477.500 PP	75	12	4,000	65.809 65.719

Tubes with round base from PC, screw cap from PP

- ☐ High temperature resistance up to 138° C, high stability
- ☐ Tubes with cap, autoclavable at 121° C**, important notes on autoclaving: see p. 163

Volume ml	Order Number	Length/Ø mm	Packaging Pcs./Case	Cap Colour	Description
12	60.9922.936 PC	99/16	1,000	white	cap enclosed
12	60.9922.937 PC	99/16	1,000	yellow	cap assembled, sterile

 = StackPack *Caps are shown on pp. 57-58 **Do not seal the cap tightly when autoclaving

PS = polystyrene, transparent, PP = polypropylene, PC = polycarbonate, transparent

Reagent and Centrifuge Tubes



Tubes with conical base, screw cap from HD-PE, with graduations and writing space

Volumen ml	Order Number Material	Length mm	Ø mm	Packaging	Description
50	62.548.004 PP	114	28	50/bag 500/case	red cap, assembled
50	62.548.304 PP	114	28	25/bag 300/case	brown colouration, red cap, assembled
50	62.547.004 PP	114	28	25/styrofoam rack 300/case	red cap, assembled, sterile, non-pyrogenic
50	62.547.254 PP	114	28	25/bag 300/case	red cap, assembled, sterile, non-pyrogenic
50	62.547.354 PP	114	28	25/bag 300/case	brown colouration, red cap, assembled, sterile, non-pyrogenic
30	60.544** PP	107	25	250/bag 500/case	neutral cap, enclosed
30	60.545** PP	107	25	50/bag 500/case	neutral cap, assembled, sterile
15	62.554.001 PP	120	17	50/bag 500/case	red cap, assembled
15	62.554.002 PP	120	17	50/styrofoam rack 500/case	red cap, assembled, sterile, non-pyrogenic
15	62.554.502 PP	120	17	50/bag 500/case	red cap, assembled, sterile, non-pyrogenic
15	62.553.041 PS	120	17	50/bag 500/case	yellow cap, assembled
15	62.553.042 PS	120	17	50/styrofoam rack 500/case	yellow cap, assembled, sterile, non-pyrogenic
15	62.553.542 PS	120	17	50/bag 500/case	yellow cap, assembled, sterile, non-pyrogenic
10	62.9924.283 PP	100	16	500/bag 1,000/case	neutral cap, enclosed
10	62.9924.284 PP	100	16	100/bag 1,000/case	yellow cap, assembled, sterile

Rack for conical 50 ml tube – 2 rows of 5 apertures each – Order Number 93.1645

50 ml tube with skirted base on p. 51

** without graduations and writing space, PS = polystyrene, transparent, PP = polypropylene, HD-PE = High Density polyethylene

Reagent and Centrifuge Tubes



Tubes with conical skirted base from PP, screw cap from HD-PE

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
50	62.559 PP with printed graduations	115/28	500	red cap, assembled	
50	62.559.001 PP with printed graduations	115/28	300	red cap, assembled, sterile, non-pyrogenic	
50	62.559.010 PP with printed graduations	115/28	300	neutral cap, assembled, sterile	
30	62.543 PP with printed graduations	107/25	500	neutral cap, assembled	
30	62.543.001 PP with printed graduations	107/25	400	neutral cap, assembled, sterile	
25	60.9922.241 PP	90/25	500	neutral cap, assembled	
25	63.9922.252 PP	90/25	500	neutral cap, assembled with label	
25	60.9922.243 PP	90/25	500	yellow cap, assembled, sterile	
25	63.9922.254 PP	90/25	500	yellow cap, assembled with label, sterile	

Laboratory Products



Tubes with conical skirted base, screw cap from HD-PE

- ☐ Tube 76 x Ø 20 mm from high-quality PP with high transparency
- ☐ Tube 97 x Ø 16 mm clear PS ensures high visibility of the sample material
- ☐ Tube 66 x Ø 11.5 mm is of special advantage for sample storage in association with block rack no. 93.854 (see p. 129).

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
15	60.732 PP	76/20	500	neutral cap, enclosed	
15	60.732.001 PP	76/20	500	neutral cap, assembled, sterile	
10	60.9921.821 PS	97/16	1,000	neutral cap, enclosed	
10	60.9921.830 PS	97/16	1,000	yellow cap, assembled	
10	60.9921.829 PS	97/16	1,000	yellow cap, assembled, sterile	
3.5	60.549 PP	66/11.5	2,000	neutral cap, enclosed	
3.5	60.549.001 PP	66/11.5	1,000	neutral cap, assembled, sterile	

PS = polystyrene, transparent, PP = polypropylene, HD-PE = High Density polyethylene

Reagent and Centrifuge Tubes



Tubes with flat base from PP, screw cap from HD-PE

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
13	60.541.685 PP	101/16.5	1,000	neutral cap, enclosed	
13	60.540.686 PP	101/16.5	500	neutral cap, assembled, sterile	
10	60.551 PP	79/16.0	1,000	neutral cap, enclosed	
10	60.551.001 PP	79/16.0	1,000	neutral cap, assembled, sterile	
8	60.542 PP	57/16.5	1,000	neutral cap, enclosed	
8	60.542.024 PP	57/16.5	1,000	neutral cap, assembled, sterile	
5	60.558 PP not illustrated	57/15.3	1,000	neutral cap, enclosed	
5	60.558.001 PP not illustrated	57/15.3	1,000	neutral cap, assembled, sterile	

Tube with flat base from PP, screw cap from PP with O-ring

- ☐ Highly reliable sealing for the transport of infectious material
- ☐ Tube with cap* autoclavable at 121° C, important notes on autoclaving: see p. 163

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
8	60.542.007 PP	57/16.5	1,000	cap with O-ring enclosed	

Tubes with conical false bottom from PP, screw cap from HD-PE

- ☐ The base in the middle of the tube is especially suitable for small volumes and for direct adaptation in analysers
- ☐ Tubes with rounded base facilitate the loading of sample trays

Volume ml	Order Number Material	Length/Ø mm	Description		Base Shape
			Screw cap	Print	
5	62.611 PP	92/15.3	with	with	flat
5	60.611.010 PP	92/15.3	without	without	flat
5	60.611.011 PP brown	92/15.3	without	without	flat
5	62.612 PP	92/15.3	with	with	rounded
5	60.612.010 PP	92/15.3	without	without	rounded
3.5	62.613 PP	92/13	with	with	flat
3.5	60.613.010 PP	92/13	without	without	flat
3.5	62.617 PP	92/13	with	with	rounded
3.5	60.617.010 PP	92/13	without	without	rounded

Packaging of the tubes: 100/bag, 1,000/case
10 ml standard tube 92 x Ø 15.3 mm without false bottom, see p. 48.
Coloured inserts for screw caps of tubes Ø 15.3 mm, see p. 48.

Separate screw cap for tube Ø 15.3 mm, neutral:
Order Number: 65.729 5,000 pcs./case
Separate screw cap for tube Ø 13 mm, neutral:
Order Number: 65.728 5,000 pcs./case











*Do not seal the cap tightly when autoclaving; PP = polypropylene, HD-PE = High Density polyethylene



Reagent and Centrifuge Tubes





Tubes with flat base, screw cap from PP

Volume ml	Order Number	Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
120	60.597	PP	114/42	250	neutral cap, enclosed	
120	60.597.001	PP	114/42	100	neutral cap, assembled, sterile	
60	60.596	PP	126/28.5	250	neutral cap, enclosed	
60	60.596.001	PP	126/28.5	250	neutral cap, assembled, sterile	
50	60.9922.285	PP not illustrated	105/28	500	neutral cap, enclosed	
50	60.9922.286	PP not illustrated	105/28	500	yellow cap, assembled, sterile	
40	62.555	PP with printed graduations	85/28.5	450	neutral cap, enclosed	
40	62.555.001	PP with printed graduations	85/28.5	450	neutral cap, assembled, sterile	
25	60.9922.113	PS	54/27	500	neutral cap, enclosed	
25	60.9922.115	PS	54/27	500	yellow cap, assembled, sterile	

Additional containers with screw cap on p. 114 "Disposable Container"

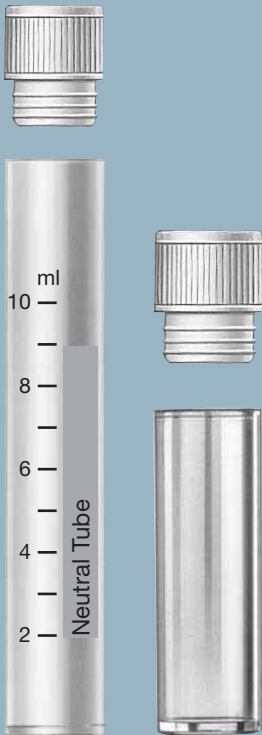
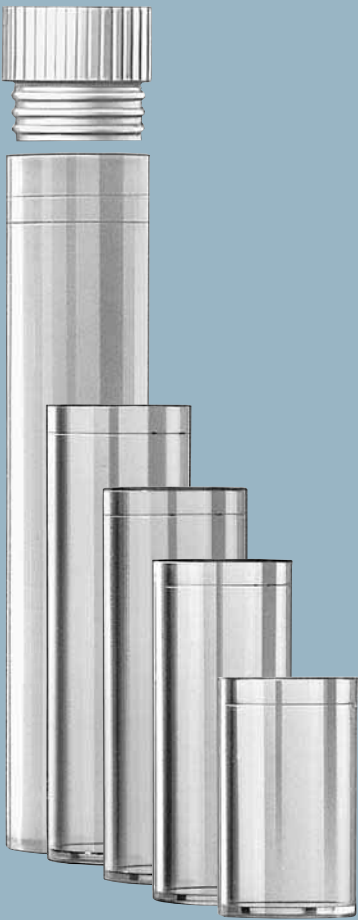
Tubes with flat base from PC, screw cap from PP

- ☐ Clear, highly-resistant tubes
- ☐ High temperature resistance, autoclavable at 121° C*, important notes on autoclaving: see p. 163
- ☐ Cold-resistant down to -80° C

Volume ml	Order Number	Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
30	60.9922.212	PC	80/27	500	cap enclosed	
7	71.9923.610	PC	47/20	1,000	cap enclosed	

*Do not seal tightly when autoclaving; PS = polystyrene, transparent, PP = polypropylene, PC = polycarbonate, transparent

Reagent and Centrifuge Tubes



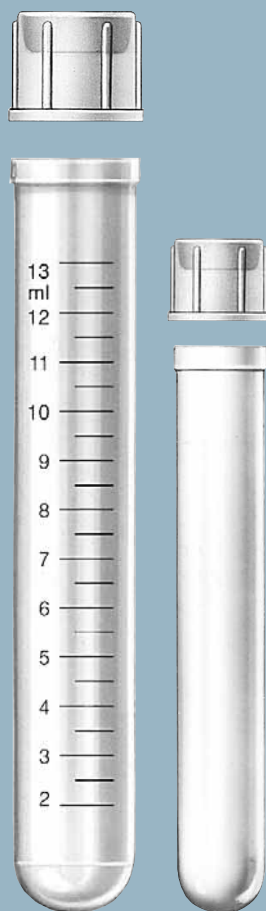
Tubes with flat base, push cap

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
35	58.537 PP	115	23.5	500	65.790
23	58.490 PS 58.631 PP	75	23.5	1,000	65.790
21	58.489 PS	65	23.5	1,000	65.790
12	58.487 PS	40	23.5	2,000	65.790
12	58.491 PS 58.505 PP	95	16.5	1,000	65.793 65.816 65.720
12	62.470 PS with writing space and graduation	95	16.5	1,000	65.793 65.816 65.720
7	58.485 PS 58.536 PP	50	16	2,000	65.793 65.816 65.720
7	62.486 PS with writing space and graduation	50	16	2,000	65.793 65.816 65.720

Tube with flat base, push cap assembled, sterile

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Cap Colour
7	58.485.001 PS	50	16	1,000	neutral

PS = polystyrene, transparent, PP = polypropylene, * caps see pp. 57 - 58



NEW

NEW

Tubes with assembled two-position ventilation cap

Position 1: cap lightly pushed on → ventilated

Position 2: cap tightly pushed on → sealed

Volume ml	Order Number Material	Length/Ø mm	Description	Packaging	Pcs./Case
5	55.526.006 PP 55.476.013 PS	75/12	without print	25/bag, sterile	1,000
5	62.526.028 PP 62.476.028 PS	75/12	with printed graduations	ind. wrapped, sterile	500
13	62.515.006 PP	100/16	with printed graduations	25/bag, sterile	500
13	62.515.028 PP	100/16	with printed graduations	ind. wrapped, sterile	400

Ventilation caps, supplied separately

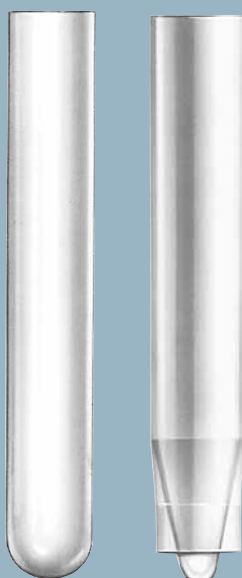
Order Number	Compatible Tube	Packaging Pcs./Case
65.722	75 x 12 mm Ø	5,000
65.725	100 x 16 mm Ø	5,000

Tubes for special analysers (not illustrated)

Volume ml	Order Number Material	Length/Ø mm	Description	Packaging
5	55.1578 PP highly transparent	75/12 (round base)	tube for flow-cytometer FACSscan	2,000/case
5	55.476.061 PS	75/12 (round base)	tube for Vitek and Vitek 2 of bioMérieux	500/stack case 2,000/case
5	55.1579 PS	75/12 (round base)	tube for flow-cytometer FACSria, FACSCanto, FACSCalibur	500/stack case 2,000/case
5	55.475.200 PS	75/13 (round base)	tube for Tecan Genesis, FE500	490/stack case 1,960/case

Coombs-Tube

Gamma Counter Tube



Glass tube for Coombs test

☐ Regular wall thickness, safe packaging

Volume ml	Order Number	Length/Ø mm	Packaging
5	86.1509	75/11.5	294/case 2.352/outer case

Conical tube for Pharmacia/LKB Gamma Counter and Gamma Counter of Packard

Suitable for all racks and instrument types, old and new (rack types on p. 111).

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Compatible Caps*
4.5	57.477.500 PP	75/12	4,000	65.809 65.719

PS = polystyrene, transparent, PP = polypropylene · *caps on pp. 57-58

Tubes with Print or Label



Tubes from PS with print,

with printed writing space and graduations

Volume ml	Order Number Material	Length mm	Ø mm	Packaging Pcs./Case	Compatible Caps*
13	62.492 PS with round base	95	16.8	1,000	65.793 65.816 65.720
12	62.470 PS with flat base	95	16.5	1,000	65.793 65.816 65.720
7	62.486 PS with flat base	50	16	2,000	65.793 65.816 65.720
5	62.493 PS with round base	75	13	2,000	65.806 65.818 65.724
5	62.476.022 PS with round base	75	12	2,000	65.809 65.719

Special print

Upon request, all tubes are available with special print at additional cost.

Minimum order quantity: 10,000 pcs.



Tubes from PP with print, screw cap from HD-PE,

with printed writing space and graduations

Volume ml	Order Number Material	Length/Ø mm	Packaging Pcs./Case	Description	Base Shape
10	62.610.201 PP	92/15.3	500	neutral cap, assembled, sterile	
10	62.551.201 PP	79/16	1,000	neutral cap, assembled, sterile	
5	62.558.201 PP	57/15.3	1,000	neutral cap, assembled, sterile	

Tubes with paper label

Standard label

Instead of print, the tubes are also available with a standard paper label.

These labels can be printed with additional information at additional cost.

The labels are available in white with black print.

Special label separately on rolls

Standard labels as illustrated. Available in full rolls only.

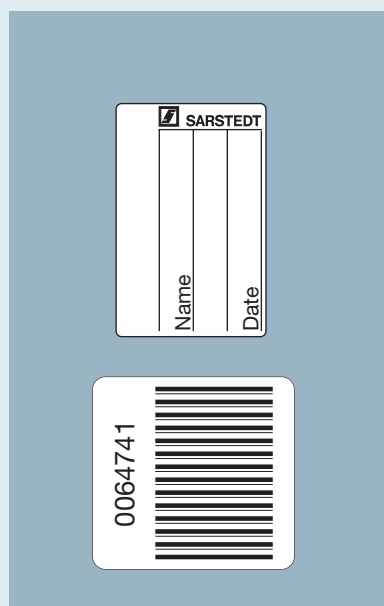
Order Number	Label Size	Pcs./Roll
84.1556.010	40 x 26 mm	5,000
84.1027.010	62 x 40 mm	5,000

Special label / Barcode label

The labels detailed above are also available with customised print. The tubes can also be supplied with barcode labels.

The Minimum order quantity for special labels on tubes is 10,000 pieces, individual labels with special print are available on request.

PS = polystyrene, transparent · *caps on pp. 57 - 58



Push Cap Closures

Push caps for test and centrifuge tubes



For tube size
95 x 24.8 mm

Order Number	Colour	Material
65.791	neutral	LD-PE

2,000 pcs./case



For tube sizes
115 x 23.5 mm 87 x 23.5 mm
75 x 23.5 mm 65 x 23.5 mm
57 x 23.5 mm 40 x 23.5 mm

Order Number	Colour	Material
65.790	neutral	LD-PE

2,000 pcs./case



For tube size
100 x 21.5 mm

Order Number	Colour	Material
65.529	neutral	LD-PE

5,000 pcs./case



For tube size
88 x 17 mm

Order Number	Colour	Material
65.521	neutral	LD-PE

10,000 pcs./case

For tube sizes
130 x 17.0 mm 95 x 16.8 mm
119 x 15.5 mm 95 x 16.5 mm
110 x 17.0 mm 82 x 16.8 mm
105 x 16.8 mm 50 x 16.0 mm
100 x 16.0 mm 67 x 16.8 mm

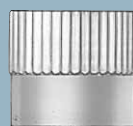
Order Number	Colour	Material
65.793	neutral	LD-PE
65.793.513	blue	LD-PE
65.793.514	yellow	LD-PE
65.793.515	green	LD-PE
65.793.517	white	LD-PE
65.793.518	red	LD-PE
65.793.520	violet	LD-PE

5,000 pcs./case



Order Number	Colour	Material
65.816	neutral	LD-PE

10,000 pcs./case



Skirted push cap

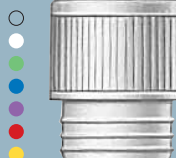
Order Number	Colour	Material
65.720	neutral	HD-PE

2,000 pcs./case

For tube sizes
100 x 15.7 mm
75 x 15.7 mm
65 x 15.7 mm

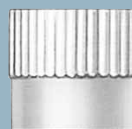
Order Number	Colour	Material
65.803	neutral	LD-PE
65.803.001	white	LD-PE
65.803.002	green	LD-PE
65.803.003	blue	LD-PE
65.803.005	violet	LD-PE
65.803.512	red	LD-PE
65.803.932	yellow	LD-PE

5,000 pcs./case



Order Number	Colour	Material
65.802	neutral	LD-PE

1,000 pcs./case



Skirted push cap

Order Number	Colour	Material
65.727	neutral	HD-PE

5,000 pcs./case

For tube size
84 x 14.5 mm

Order Number	Colour	Material
65.804	neutral	LD-PE

5,000 pcs./case



For tube size
50 x 14 mm

Order Number	Colour	Material
65.804.001	neutral	LD-PE

10,000 pcs./case



HD-PE = High Density polyethylene
LD-PE = Low Density polyethylene

Push Cap Closures

Push caps for test and centrifuge tubes



For tube sizes
100 x 13 mm
85 x 13 mm
75 x 13 mm

Order Number	Colour	Material
65.806	neutral	LD-PE
65.806.506	blue	LD-PE
65.806.507	yellow	LD-PE
65.806.508	green	LD-PE
65.806.510	red	LD-PE
65.806.511	violet	LD-PE
65.806.512	white	LD-PE

10,000 pcs./case



Order Number	Colour	Material
65.818	neutral	LD-PE

10,000 pcs./case

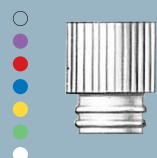
Skirted push cap



Order Number	Colour	Material
65.724	neutral	LD-PE

10,000 pcs./case

For tube sizes
75 x 12.0 mm
75 x 11.5 mm
55 x 12.0 mm



Order Number	Colour	Material
65.809	neutral	LD-PE
65.809.003	violet	LD-PE
65.809.499	red	LD-PE
65.809.500	blue	LD-PE
65.809.501	yellow	LD-PE
65.809.502	green	LD-PE
65.809.505	white	LD-PE

10,000 pcs./case

Skirted push cap



Order Number	Colour	Material
65.719	neutral	LD-PE

5,000 pcs./case

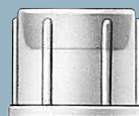
Ventilation caps (with two-position fit)

For tube size
75 x 12 mm



Order Number	Colour	Material
65.722	neutral	LD-PE

5,000 pcs./case



For tube size
100 x 16 mm PP

Order Number	Colour	Material
65.725	neutral	LD-PE

5,000 pcs./case



For tube sizes
75 x 10 mm
63 x 11 mm

Order Number	Colour	Material
65.782	neutral	LD-PE

10,000 pcs./case



Anti-Evaporation Cap for S-Monovette® diameter 15 mm

Order Number	Colour	Material
65.648	neutral	HD-PE

5,000 pcs./case

NEW



Archiving Cap for tubes diameter 13 to 16 mm

Order Number	Colour	Material
65.647	light blue	HD-PE

5,000 pcs./case

NEW



Universal Cap for tubes diameter 12 to 17 mm

Order Number	Colour	Material
65.1379	neutral	HD-PE
65.1379.002	red	HD-PE
65.1379.004	yellow	HD-PE
65.1379.006	blue	HD-PE

10,000 pcs./case

HD-PE = High Density Polyethylene
LD-PE = Low Density Polyethylene
PP = Polypropylene

Products for superior quality requirements

Over 25 years ago, Sarstedt introduced a new laboratory standard: the safe screw cap micro tube. The Sarstedt screw cap micro tube is now used worldwide and is a crucial part of daily research and diagnostic work.

The secure screw cap closure with O-ring seal and the robust polypropylene tube make this product a versatile tool that is ideal for centrifugation, transport, and storage of high quality synthetic oligonucleotides, enzymes, buffers etc.

To accommodate the highly sophisticated needs of customers working in the field of medical research, environmental technology, the pharmaceutical and food industries as well as in cellular and molecular biology, screw cap micro tubes are now also available in the certified **PCR Performance Tested** and **Biosphere®** purity standards.



sterile • non-pyrogenic • DNA-free
RNase-free • ATP-free



Further information on Sarstedt quality standards for laboratory products on page 68.



Transport and storage container for high-grade synthesized oligonucleotides, enzymes, buffers etc.

The biological purity of certified laboratory products is guaranteed by a controlled production process that complies with the strictest purity requirements, ensuring that our customers can achieve utmost reproducibility in their analyses and research experiments.



Practical single-handed opening and closing in special gripper rack

Various coding possibilities with colour-coded inserts for attached loop caps



Certified Screw Cap Micro Tubes

For uncompromising quality and purity

- ☐ Safe screw cap with O-ring
- ☐ Tube and cap from high-quality polypropylene
- ☐ Knurls enable single-handed operation in special Sarstedt gripper racks for micro tubes (racks on pp. 64, 126-128)



NEW

Micro tubes 0.5 ml, Type A, with skirted base and writing space, neutral cap

Order Number	Description		Packaging
72.730.217	with looped screw cap, non-assembled, Biosphere® quality (sterile)		25/bag 250/inner case 500/case
72.730.416	with looped screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case
72.730.406	with screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case



NEW

Micro tubes 1.5 ml, Type C, with skirted base and writing space, neutral cap

Order Number	Description		Packaging
72.703.217	with looped screw cap, non-assembled, Biosphere® quality (sterile)		25/bag 250/inner case 500/case
72.703.416	with looped screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case
72.703.406	with screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case



NEW

Micro tubes 1.5 ml, Type D, without skirted base, neutral cap

Order Number	Description		Packaging
72.692.210*	with looped screw cap, non-assembled, Biosphere® quality (sterile)		25/bag 250/inner case 500/case
72.692.415*	with looped screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case
72.692.405*	with screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case



NEW

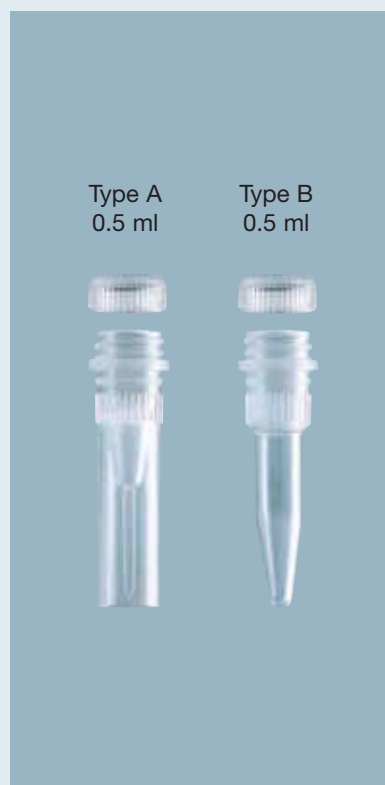
Micro tubes 2.0 ml, Type I, with skirted base and writing space, neutral cap

Order Number	Description		Packaging
72.694.217	with looped screw cap, non-assembled, Biosphere® quality (sterile)		25/bag 250/inner case 500/case
72.694.416	with looped screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case
72.694.406	with screw cap, assembled, PCR Performance Tested		100/bag 500/inner case 1,000/case

*For technical reasons available without print only.

Screw Cap Micro Tubes

For transport, storage and sample processing in the laboratory



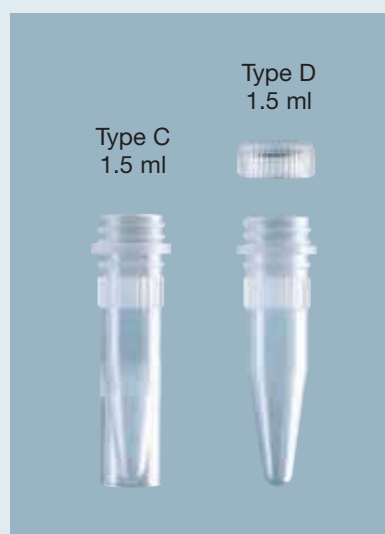
- ☐ Safe screw cap with O-ring
- ☐ Tube and cap from high-quality polypropylene, autoclavable at 121°C, important notes on autoclaving: see p. 163
- ☐ Knurls enable single-handed operation in special Sarstedt racks for micro tubes (racks on pp. 126-128)

Micro tubes 0.5 ml, Type A, with skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.730	screw cap enclosed	5,000
72.730.005	screw cap assembled, sterile	1,000
72.730.007	with writing space, screw cap enclosed	5,000
72.730.006	with writing space, screw cap assembled, sterile	1,000
72.730.003	without screw cap	5,000
72.730.009	with writing space, without screw cap	5,000
72.730.004	brown colouration, without screw cap	5,000

Micro tubes 0.5 ml, Type B, without skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.733.001	screw cap enclosed	5,000
72.733.010	without screw cap	5,000

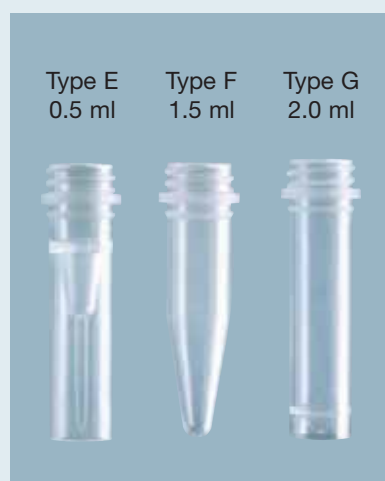


Micro tubes 1.5 ml, Type C, with skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.703	without screw cap	5,000
72.703.004	brown colouration, without screw cap	5,000

Micro tubes 1.5 ml, Type D, without skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.692	screw cap enclosed	5,000
72.692.005	screw cap assembled, sterile	1,000
72.607	without screw cap	5,000
72.607.004	brown colouration, without screw cap	5,000



Micro tubes Type E-G, without knurls, neutral cap

- ☐ Micro tubes without knurls - large space for labelling

Order Number	Description	Type	Packaging Pcs./Case
72.785	0.5 ml, with skirted base, without screw cap	E	5,000
72.785.005	0.5 ml, with skirted base, screw cap assembled, sterile	E	1,000
72.687	1.5 ml, without skirted base, without screw cap	F	5,000
72.664	2.0 ml, with skirted base, without screw cap	G	5,000

Length incl. cap – 46 mm,
ø below collar – 10.8 mm

Storage boxes and special racks for micro tubes on p. 117 and pp. 126-128.

Screw Cap Micro Tubes

For transport, storage and sample processing in the laboratory

Type H
2.0 ml



- ☐ Safe screw cap with O-ring
- ☐ Tube and cap from high-quality polypropylene, autoclavable at 121°C, important notes on autoclaving: see p. 163

Micro tubes 2.0 ml, Type H, without skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.693	screw cap enclosed	5,000
72.693.005	screw cap assembled, sterile	1,000
72.608	without screw cap	5,000
72.608.004	brown colouration, without cap	5,000

Type I
2.0 ml



Micro tubes 2.0 ml, Type I, with skirted base, neutral cap

Order Number	Description	Packaging Pcs./Case
72.694	screw cap enclosed	5,000
72.694.005	screw cap assembled, sterile	1,000
72.694.007	with writing space and graduations*, screw cap enclosed	5,000
72.694.006	with writing space and graduations*, screw cap assembled, sterile	1,000
72.609	without screw cap	5,000
72.609.001	with writing space and graduations*, without screw cap	5,000
72.609.003	brown colouration, without screw cap	5,000
72.609.034	black, without screw cap	5,000

* For technical reasons, the graduations can only be printed up to 1.25 ml.

Length incl. cap – 46 mm, ø below collar – 10.8 mm

Screw caps for Micro Tubes Type A-I, colour-coded, case quantity: 10,000 pcs./case

Order Number	Colour	Order Number	Colour
65.716	neutral	65.716.006	orange
65.716.001	blue	65.716.007	black
65.716.002	yellow	65.716.008	violet
65.716.003	red	65.716.022	white
65.716.004	pink	65.716.009	brown
65.716.005	green	65.716.999	mixed colours, 10 colours

NEW

Membrane Screw Cap for Micro Tubes

Screw cap with pierceable cap membrane, ideal for automated dosing and direct analyser sampling.

The screw cap is compatible with all screw cap micro tubes types A to I.

Order Number	Description	Packaging Pcs./Case
65.3716	Membrane Screw Cap	2,000

Storage boxes and special racks for micro tubes on p. 117 and pp. 126-128.

Screw Cap Micro Tubes

For transport, storage and sample processing in the laboratory



- ☐ Attached loop screw cap avoids mix-ups, screw cap with O-ring
- ☐ Tube and cap from high-quality polypropylene, autoclavable at 121°C, important notes on autoclaving: see p. 163
- ☐ Knurls enable single-handed operation in special Sarstedt racks for micro tubes (racks on pp. 126 -128)

Micro tubes 0.5 ml, Type A, with skirted base, attached loop cap

Order Number	Description	Packaging Pcs./Case
72.730.100	screw cap non-assembled	5,000
72.730.107	with writing space, screw cap non-assembled	5,000
72.730.105	screw cap assembled, sterile	1,000
72.730.106	with writing space, screw cap assembled, sterile	1,000

Micro tubes 1.5 ml, Type D, without skirted base, attached loop cap

Order Number	Description	Packaging Pcs./Case
72.692.100	screw cap non-assembled	5,000
72.692.105	screw cap assembled, sterile	1,000

Micro tubes 2.0 ml, Type H, without skirted base, attached loop cap

Order Number	Description	Packaging Pcs./Case
72.693.100	screw cap non-assembled	5,000
72.693.105	screw cap assembled, sterile	1,000

Micro tubes 2.0 ml, Type I, with skirted base, attached loop cap

Order Number	Description	Packaging Pcs./Case
72.694.100	screw cap non-assembled	5,000
72.694.107	with writing space and graduations*, screw cap non-assembled	5,000
72.694.105	screw cap assembled, sterile	1,000
72.694.106	with writing space and graduations*, screw cap assembled, sterile	1,000

Screw cap with separate retaining loop, neutral

Order Number: 65.712, packaging 500 pcs./bag, 5,000 pcs./case

Colour coded inserts

(only fit attached caps)

Packaging 500 pcs./bag, 5,000 pcs./case

Order Number	Colour	Order Number	Colour
65.713	neutral	65.713.006	blue
65.713.002	red	65.713.007	violet
65.713.004	yellow	65.713.009	white
65.713.005	green	65.713.010	black

Storage boxes and special racks for micro tubes on p. 117 pp. 126-128.

Length incl. cap – 49 mm, Ø below collar – 10.8 mm

* For technical reasons, the graduations can only be printed up to 1.25 ml.

Micro Tubes in special sterile packaging

Type A
0.5 ml

Type D
1.5 ml

Type F
1.5 ml



Type G
2.0 ml

Type I
2.0 ml



Each bag is sub-packaged into a second, additional bag. Removing the outer bag leaves a completely sterile bag packaging for convenient processing in clean rooms or sterile environments. This packaging option is ideal for users working under clean room conditions to fill precious reagents into the tubes.

Micro tubes in special sterile packaging

Order Number	Description	Type	Packaging
72.730.711	0.5 ml with skirted base	A	500/double bag 2,500/case
72.607.772	1.5 ml without skirted base	D	500/double bag 2,500/case
72.687.772	1.5 ml without skirted base, without knurls	F	500/double bag 2,500/case
72.664.711	2.0 ml with skirted base, without knurls	G	500/double bag 2,500/case
72.609.711	2.0 ml with skirted base	I	500/double bag 2,500/case

Colour coded screw caps in special sterile packaging

Packaging: 500/double bag, 5,000/case

Order Number	Colour	Order Number	Colour
65.716.725	neutral	65.716.720	yellow
65.716.721	red	65.716.723	blue
65.716.726	green	65.716.727	orange
65.716.728	black	65.716.729	brown
65.716.755	violet	65.716.757	white

Rack series 18 / 20 / 48 for micro tubes

Notched apertures in the racks enable single-handed operation

Order Number	Apertures	Dimensions
93.894	3 x 6 (for 18 tubes)	40 x 137 x 70 mm
93.848.100	4 x 5 (for 20 tubes)	40 x 257 x 62 mm
93.1428	4 x 12 (for 48 tubes)	40 x 257 x 90 mm



NEW

SafeSeal Micro Tube 1.5 ml, PP, with wide hinge

☐ Attached cap with locking mechanism ensures secure fit for thermal applications

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.706	39/10.8	neutral	250/bag	2,000
72.706.001	39/10.8	brown	250/bag	2,000
72.706.002	39/10.8	red	250/bag	2,000
72.706.004	39/10.8	yellow	250/bag	2,000
72.706.005	39/10.8	green	250/bag	2,000
72.706.006	39/10.8	blue	250/bag	2,000

☐ PCR Performance Tested (refer to page 68)

72.706.400	39/10.8	neutral	250/bag	2,000
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☐ Biosphere® quality (sterile) packaged in small quantities (refer to page 68)

72.706.200	39/10.8	neutral	50/bag	500
72.706.201	39/10.8	neutral	ind. wrapped	120

Micro tubes 1.5 ml, PP, with attached PP cap

☐ With graduation and frosted writing space

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.690.001*	39/10.8	neutral	500/bag	5,000
72.690.007	39/10.8	violet	500/bag	5,000
72.690.475	39/10.8	blue	500/bag	5,000
72.690.476	39/10.8	green	500/bag	5,000
72.690.477	39/10.8	red	500/bag	5,000
72.690.478	39/10.8	yellow	500/bag	5,000
72.690.004	39/10.8	brown	500/bag	5,000
72.690.996	39/10.8	Colour mix	500/colour	3,000

* formerly 72.690

Colour Mix: violet, blue, green, red, yellow, brown

Micro tube 1.5 ml, PP, with attached PP 'EASY CAP'

☐ Loosely fitting closure, e.g. for applications without thermal load

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.690.550	39/10.8	neutral, transparent	500/bag	5,000

Micro tubes 1.5 ml, PP, with attached soft LD-PE push cap

Order Number	Length/Ø mm	Cap Colour	Packaging	Pcs./Case
72.688	39/10.8	neutral	500/bag	5,000
72.688.001	39/10.8	blue	500/bag	5,000
72.688.002	39/10.8	green	500/bag	5,000
72.688.003	39/10.8	red	500/bag	5,000
72.688.004	39/10.8	yellow	500/bag	5,000
72.688.005	39/10.8	violet	500/bag	5,000

Storage boxes and special racks for micro tubes on p. 117 and pp. 126-128.

PP = polypropylene, LD-PE = Low Density polyethylene

NEW

SafeSeal Micro Tube 0.5 ml, PP, with wide hinge

☐ Attached cap with locking mechanism ensures secure fit for thermal applications

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.704	30/7.8	neutral	500/bag	2,000
72.704.001	30/7.8	brown	500/bag	2,000
72.704.002	30/7.8	red	500/bag	2,000
72.704.004	30/7.8	yellow	500/bag	2,000
72.704.005	30/7.8	green	500/bag	2,000
72.704.006	30/7.8	blue	500/bag	2,000



☐ PCR Performance Tested (refer to page 68)

72.704.400	30/7.8	neutral	250/bag	2,000
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☐ Biosphere® quality (sterile) packaged in small quantities (refer to page 68)

72.704.200	30/7.8	neutral	50/bag	500
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Micro tubes 0.5 ml, PP, with attached PP cap

Order Number	Length/Ø mm	Colour	Description	Packaging Bag/Case
72.699	30/7.8	neutral	with cap	1,000/5,000
72.699.001	30/7.8	red	with cap	500/5,000
72.699.002	30/7.8	yellow	with cap	500/5,000
72.699.003	30/7.8	blue	with cap	500/5,000
72.699.004	30/7.8	green	with cap	500/5,000
72.699.005	30/7.8	violet	with cap	500/5,000

Micro tube 0.5 ml with attached cap, as above, but with ventilation aperture in the cap

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.698	30/7.8	neutral	1,000/bag	5,000

Micro tubes, PP, without cap

Order Number	Volume	Length	Ø mm	Packaging
72.696	1.5 ml	39	10.8	500/bag 10,000/case
72.698.200	0.5 ml	30	7.8	500/bag 5,000/case
72.702*	0.3 ml	47	5.5	10,000/case

* for micro sedimentation

Caps for micro tube 1.5 ml, LD-PE

Flat push cap



Order No.: 65.697 neutral

Tall push cap



Order No.: 65.723 neutral

Soft cap with loop



Order No.: 65.109 neutral

Storage boxes and special racks for micro tubes on p. 117 and pp. 126-128.

PP = polypropylene, LD-PE = Low Density polyethylene



SafeSeal Micro Tube 2.0 ml, PP

- ☐ Attached PP cap with lid seal mechanism
- ☐ With volume graduation, writing space and flat cap

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.695	40/10.8	neutral	500/bag	5,000
72.695.001	40/10.8	brown	500/bag	5,000
72.695.002	40/10.8	red	500/bag	5,000
72.695.004	40/10.8	yellow	500/bag	5,000
72.695.005	40/10.8	green	500/bag	5,000
72.695.006	40/10.8	blue	500/bag	5,000
72.695.007	40/10.8	violet	500/bag	5,000



- ☐ PCR Performance Tested (refer to page 68)

72.695.400	40/10.8	neutral	250/bag	2,000
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- ☐ Biosphere® quality (sterile) packaged in small quantities (refer to page 68)

72.695.200	40/10.8	neutral	50/bag	500
72.695.201	40/10.8	neutral	ind. wrapped	120

NEW



Micro tubes 2.0 ml, PP, without cap

Order Number	Length/Ø mm	Base Shape	Packaging	Pcs./Case
72.708	39/10.8	conical	500/bag	5,000
72.709	39/10.8	conical/skirted	500/bag	5,000

Caps for 2.0 ml micro tube, LD-PE

Flat push cap



Order No.: 65.697 neutral

Tall push cap



Order No.: 65.723 neutral

Soft cap with loop



Order No.: 65.109 neutral



Micro tubes 2.0 ml, PP, with attached soft LD-PE push cap

Order Number	Length/Ø mm	Cap Colour	Packaging	Pcs./Case
72.689	39/10.8	neutral	500/bag	5,000
72.689.001	39/10.8	blue	500/bag	5,000
72.689.002	39/10.8	green	500/bag	5,000
72.689.003	39/10.8	red	500/bag	5,000
72.689.004	39/10.8	yellow	500/bag	5,000
72.689.006	39/10.8	violet	500/bag	5,000

Storage boxes and special racks for micro tubes on p. 117 and pp. 126-128.

PP = polypropylene, LD-PE = Low Density polyethylene

Sarstedt quality symbols

Warranty of reliability and reproducibility



To accommodate the highly sophisticated needs of customers working in the fields of medical research, environmental technology, the pharmaceutical and food industries as well as in cellular and molecular biology, Sarstedt developed **Biosphere®** quality products.

The superior biological purity of sterile laboratory products is guaranteed by a controlled production process that complies with the strictest purity requirements so that our customers can be sure to achieve utmost reproducibility in their analyses and research experiments.

All disposables, such as pipette tips and reaction tubes bearing the **Biosphere®** symbol are **sterile, DNA-, RNase- and ATP-free and non-pyrogenic**.



To reduce storage time of the sterile **Biosphere®** products in open bags and inherent contamination risks, **Biosphere®** tubes and plates are packaged in small quantities.

Biosphere® laboratory products are manufactured in accordance with defined production requirements and meet the following threshold values:

DNA < 2×10^{-14} g · **RNase** < 1.1×10^{-11} Kunitz units ·
ATP < 3.5×10^{-15} g · **Pyrogens** < 2×10^{-3} EU

Sterility is validated according to DIN EN and AAMI guideline.

PCR and other molecular-biological methods are used in laboratories all over the world. Therefore, Sarstedt has refined the production requirements for non-sterile PCR products, as well. Skilled personnel, clean room conditions along with automated production processes enable contamination-free manufacturing.



Each production batch is subjected to a highly sensitive PCR method to guarantee compliance with the individual quality criteria.

Consequently, award of the '**PCR Performance Tested**' quality symbol to a production batch is subject to successfully passing PCR tests.

Thanks to this quality grade, customers can use Sarstedt disposables in direct contact with reagents and sample material for PCR in their experimental work.

Products awarded the **PCR Performance Tested** distinction meet the following requirements:

✓ **DNase-/RNase-free**

✓ **Human DNA-free**

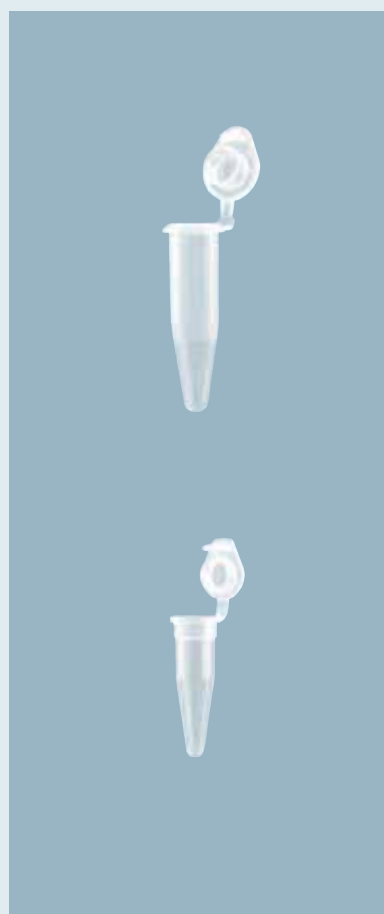
✓ **PCR inhibitor-free**

Multiply[®] PCR Reaction Tubes



Multiply[®] PCR single tubes

- ☐ Contamination-free opening of attached lid due to integral anti-contamination shield at the lid front
- ☐ Rapid temperature transfer due to thin-walled reaction space
- ☐ Frosted, flat lid with large writing area
- ☐ Easy opening of tightly fitting lid
- ☐ Designed for use in all thermocyclers in 0.2 and 0.5 ml block format
- ☐ Compatible with the RackSystem working station for pipetting and storage of 0.2 ml tubes



Multiply[®]-Pro 0.2 and 0.5 ml with integral anti-contamination shield at the lid front

- ☐ Biosphere[®] quality (sterile) packaged in small quantities

Order Number	Description	Packaging
72.735.100	0.5 ml neutral	100/bag 500/inner box 1,000/case
72.737	0.2 ml neutral	250/bag 1,000/inner box 2,000/case

- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

72.735.002	0.5 ml neutral	500/bag 2,000/case
72.735.992	0.5 ml mixed colours red, orange, green, blue, violet, yellow	500/bag 3,000/case
72.737.002	0.2 ml neutral	500/bag 2,000/case
72.737.992	0.2 ml mixed colours red, orange, green, blue, violet, yellow	500/bag 3,000/case



Multiply[®]-Safecup with 100 µl volume limitation

- ☐ 0.5 ml specially designed tube for PCR, storage and transport
- ☐ Biosphere[®] quality (sterile) packaged in small quantities

Order Number	Description	Packaging
72.733.200	Max. volume 100 µl, neutral	50/bag 250/inner box 500/case

Multiply[®] PCR Reaction Tubes



Multiply[®] PCR strips of 4 and 8 reaction tubes

- ☐ Contamination-free opening of attached lid due to integral anti-contamination shield at the lid front
- ☐ Fits thermocyclers in 0.2 ml block format
- ☐ Compatible with RackSystem work station for sample preparation and storage



0.2 ml PCR strip of 4 tubes / Multiply[®]-μStripPro with attached lid

- ☐ Biosphere[®] quality (sterile) packaged in small quantities

Order Number	Description	Packaging
72.990	0.2 ml neutral	50 strips/bag 200 strips/inner box 400 strips/case

- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

72.990.002	0.2 ml neutral	120 strips/bag 480 strips/case
72.990.992	mixed colours: red, green, blue, violet	120 strips/bag 480 strips/case



0.2 ml PCR strip of 8 tubes / Multiply[®]-μStripPro with attached lid

- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

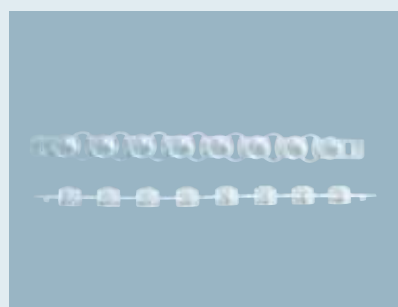
Order Number	Description	Packaging
72.991.002	0.2 ml neutral	120 strips/bag 480 strips/case
72.991.992	mixed colours: red, green, blue, violet	120 strips/bag 480 strips/case



0.2 ml PCR strip of 8 tubes / Multiply[®]-μStrip without lid

- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

Order Number	Description	Packaging
72.985.002	0.2 ml neutral	120 strips/bag 480 strips/case
72.985.992	mixed colours: red, green, blue, violet	120 strips/bag 480 strips/case



Multiply[®] lid strip, optically clear, suitable for real-time PCR

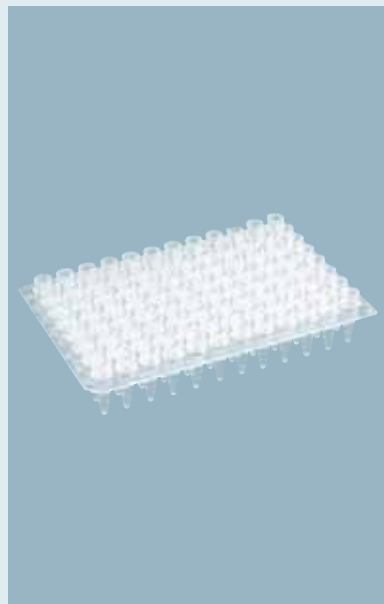
- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

Order Number	Description	Packaging
65.986.002	Strip of 8 lids for 72.985.002 and 72.985.992	120 strips/bag 480 strips/case

Biosphere[®] quality (sterile) on page 71.

Multiply[®] PCR Plates, pre-loaded with PCR tube strips of 8 cups

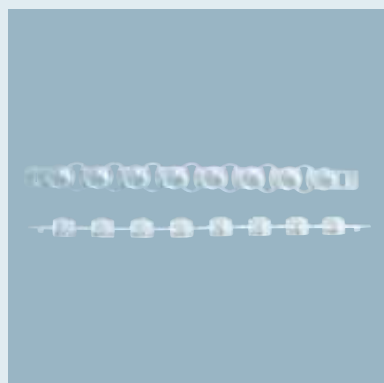
- ☐ Rapid temperature transfer due to thin-walled reaction space
- ☐ Suitable for thermocyclers in 0.2 ml block format
- ☐ PCR trays pre-loaded with thin-walled PCR strips of 8 tubes



96 Well Multiply[®] PCR plates without skirt, in microtiter format

- ☐ Biosphere[®] quality, individually wrapped sterile to avoid contamination
- ☐ Biosphere[®] lid chains packed with 12 chains per bag, to fit one 96 well PCR plate
- ☐ Compatible with RackSystem storage and pipetting station

Order Number	Description	Packaging	Compatible Systems
72.985	0.2 ml neutral Biosphere [®] quality, sterile	1/bag 20/case	e.g. Biometra, MJ Research, Eppendorf



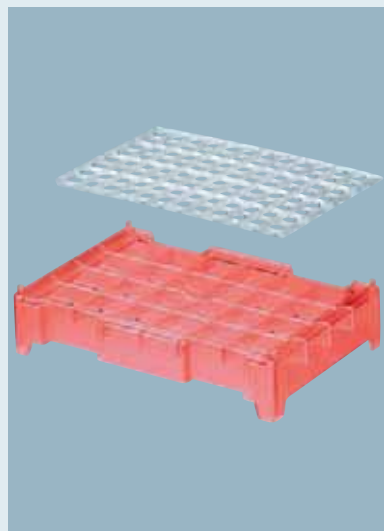
Multiply[®] PCR strips of 8 lids, optically clear, suitable for real-time PCR

- ☐ Biosphere[®] quality (sterile)

Order Number	Packaging	Compatible with
65.986	12 lid strips/bag 240 lid strips/case	PCR plate 72.985

- ☐ PCR Performance Tested, autoclavable at 121°C, [important notes on autoclaving: see p. 163](#)

65.986.002	120 lid strips/bag 480 lid strips/case	PCR plate 72.985
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RackSystem storage and pipetting station for 0.2 ml Multiply[®] PCR tubes and pre-loaded PCR plates

- ☐ Flexible, two-piece system comprising a work tray and support base
- ☐ Convenient 96 well microtiter format to fit any processing system
- ☐ Stackable design provides space-saving specimen storage
- ☐ Autoclavable at 121°C, [important notes on autoclaving: see p. 163](#)

Order Number	Description	Version	Packaging
95.987.002	PCR work tray	neutral, for 96 tubes	5/bag
95.988	Support base for PCR work tray	neutral	5/case
95.988.001		red	5/case
95.988.002		blue	5/case
95.988.003		green	5/case
95.988.004		yellow	5/case

Multiply® PCR Plates

Multiply® PCR plates made from polypropylene



- ☐ Certified by the 'PCR Performance Tested' quality symbol
- ☐ Rapid temperature transfer due to thin-walled construction of wells
- ☐ Suitable for thermocyclers in 0.2 ml block format



96 well Multiply® PCR plate without skirt

- ☐ PCR plate, fits most common thermocyclers/DNA sequencers
- ☐ Slightly raised wells to allow maximum contact surface for adhesive tapes
- ☐ Sealable with heat-resistant high transparent tape (refer to p. 74) or flat lid strip 65.1998.002 (refer to p. 73)

Order Number	Description/ max. Volume	Colour	Packaging	Compatible Instruments
72.1978.202	96 Well 0.3 ml	neutral	5/bag 100/case	e.g. Applied Biosystems, Biometra, Bio-Rad, Eppendorf, Ericom, MJ Research, Stratagene, Techne, Thermo Hybaid, Transgenomic
72.1978.222*	96 Well 0.3 ml	red	5/bag 100/case	
72.1978.232*	96 Well 0.3 ml	white	5/bag 100/case	
72.1978.242*	96 Well 0.3 ml	yellow	5/bag 100/case	
72.1978.252*	96 Well 0.3 ml	green	5/bag 100/case	
72.1978.262*	96 Well 0.3 ml	blue	5/bag 100/case	
72.1978.272*	96 Well 0.3 ml	violet	5/bag 100/case	
72.1978.282*	96 Well 0.3 ml	black	5/bag 100/case	

*available on request



96 well Multiply® PCR plate with half skirt

- ☐ PCR plate for use in Applied Biosystems thermocyclers/DNA sequencers
- ☐ Sealable with heat-resistant high transparent tape (refer to p. 74) or flat lid strip 65.1998.002 (refer to p. 73)
- ☐ Frame enables barcoding and application in automated systems
- ☐ Also available labeled with barcode 128

Order Number	Description/ max. Volume	Colour	Packaging	Compatible Instruments
72.1979.202	96 Well, 0.3 ml without barcode	neutral	25/bag 100/case	e.g. ABI Applied Biosystems, Biometra, Hybaid, MJ Research, Eppendorf
72.1979.203	96 Well, 0.3 ml with barcode	neutral	25/bag 100/case	

NEW

Note: *Compatibility Table for PCR plates on p. 75
Information on heat-resistant tapes, also for real-time PCR, on p. 74*

Multiply® PCR plates made from polypropylene



- ☐ Certified by the 'PCR Performance Tested' quality symbol
- ☐ Rapid temperature transfer due to thin-walled construction of wells
- ☐ Suitable for thermocyclers in 0.2 ml block format



NEW

96 well Multiply® Fast PCR plate with half skirt, optimized for ABI Fast PCR systems (ABI Prism 9800 and 7500 Fast)

- ☐ PCR results within 25 minutes on ABI Prism 9800 and 40 minutes on ABI Prism 7500 (real time)
- ☐ 'Low profile' design reduces dead volume and cycle times
- ☐ Ultra-clear thin-walled wells provide optimal signal recovery
- ☐ Suitable for most standard thermocyclers, e.g. from MJ Research
- ☐ Sealable with heat-resistant high transparent tape (refer to p. 74) or flat lid strip 65.1998.002

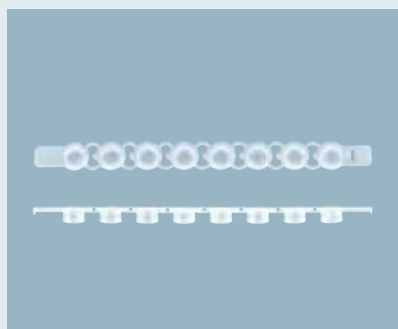
Order Number	Description/ max. Volume	Colour	Packaging	Compatible Instruments
72.1981.202	96 Well 0.2 ml	neutral	25/bag 100/case	e.g. ABI FAST PCR Systems, MJ Research



96 well Multiply® PCR plate with skirt for robotic systems and real-time thermocyclers (e.g. MJ Research, Amersham Bioscience, Hybaid, Stratagene, Eppendorf, Techne)

- ☐ SBS compliant, with 'low profile' wells
- ☐ Sealable with heat-resistant high transparent tape (refer to p. 74) or flat lid strip 65.1998.002
- ☐ Frame enables barcoding and application in automated systems

Order Number	Description/ max. Volume	Colour	Packaging	Compatible Instruments
72.1980.202	96 Well 0.2 ml	neutral	25/bag 100/case	e.g. MegaBase 500/1000 DNA Analysis System, iCycler, DNA Engine Opticon



Multiply® PCR strips of 8 lids, optically clear, with flat lids, suitable for real-time PCR

- ☐ PCR Performance Tested, autoclavable at 121°C, important notes on autoclaving: see p. 163

Order Number	Packaging	Compatible with
65.1998.002	120 lid strips/bag 480 lid strips/case	PCR plate 72.1978.202, 72.1979.202, 72.1980.202, 72.1981.202

Note: Compatibility Table for PCR plates on p. 75
Information on heat-resistant tapes, also for real-time PCR, on p. 74

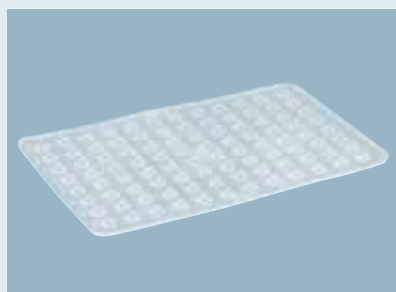
Multiply® PCR plates made from polypropylene



384 well Multiply® PCR plate with robust skirt for high throughput PCR

- ☐ The plate is SBS compliant, with robust skirt to fit most common thermocyclers/DNA sequencers
- ☐ Slightly raised wells to allow maximum contact surface for adhesive tapes
- ☐ Sealable with heat-resistant high transparent tape

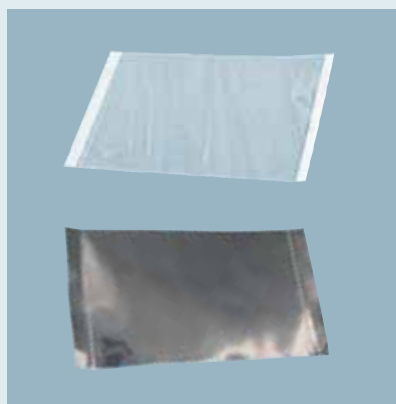
Order Number	Description/ max. Volume	Colour	Packaging	Compatible Instruments
72.1984.202	384 Well 40 µl	neutral	50/case	e.g. ABI Prism 3700, 7700, GeneAmp 9700, Bio-Rad, MJ Research, Eppendorf



Mat for thermocycler with screw/clip-down hot lid

- ☐ Autoclavable at 121°C, important notes on autoclaving: see p. 163

Order Number	Packaging	Description
95.1997	5 mats/bag 125 mats/case	for 96 Well PCR-plate



Adhesive Sealing Tapes for PCR

Order Number	Description	Tape material	Packaging
95.1994	transparent	polyolefin	100 tapes/inner case
95.1995	non-transparent	aluminium	100 tapes/inner case

Your application - our recommendation ●

Criteria/Application	Storage	High through-put screening	PCR and sequencing	'Optically clear' (for real-time PCR)	Blood sample storage	General assays (e.g. ELISA)
Temp. range	-70°C	22 to 65°C	-20 to 110°C	-20 to 110°C	-20 to 37°C	-40 to 100°C
Plate material	PP	PS, PP	PC, PP, PS	PP	PP, PS	PP, PS, PC
Solvent	DMSO	Water	Water	Water	Water	Water

Transp. foil 95.1994	●	●	●	●	●	
Aluminium foil 95.1995	●	●	●	●	●	
Standard foil 82.1586						●

Compatibility Table PCR Plates

Type	PCR plate range					
PCR plate type	96 Well, without skirt, pre-stacked	96 Well, flat top, without skirt	96 Well, half skirt	96 Well, full skirt, low profile	NEW 96 Well, Fast PCR low profile	384 Well
▼ Thermocycler Order No. ►	72.985	72.1978.202-282	72.1979.202/203	72.1980.202	72.1981.202	72.1984.202
Amersham Bioscience						
MegaBace 4000 Analysis System	X	X	X	X		✓
MegaBace 1000 Analysis System (old model)	X	X	X	✓		X
MegaBace 1000 Analysis System (new model)	X	X	X	✓		X
MegaBace 500 Analysis System	X	X	X	✓		X
Applied Biosystems						
PE 2700		✓	✓	X		X
PE 9600	✓	✓	✓	X		X
PE 9700	✓	✓	✓	X		✓
Gene Amp 9600	✓	✓	✓	X		X
Gene Amp 9700	✓	✓	✓	X		✓
Gene Amp 7500/5700 Seq. D.S.		✓	✓	X		X
ABI Prism 2720	✓	✓	✓	✓		
ABI Prism 7000	✓	✓		X		✓
ABI Prism 7300 Real-Time PCR System			✓			
ABI Prism 7500 Real-Time PCR System			✓			
ABI Prism 7700		✓	✓	X		X
ABI Prism 7900 HT, Real-Time		X	✓	X		✓
ABI Prism 7500 Fast Real-Time PCR System					✓	
ABI Prism 7900 HT Fast Real-Time PCR System					✓	
ABI Prism 9800 Fast PCR System					✓	
Seq. ABI Prism 3100	X	✓	✓	X		X
Seq. ABI 3700	X	✓	✓	✓		✓
Seq. ABI 3730		✓	✓			✓
Seq. ABI 310		✓	✓	X		X
Biometra						
Uno	✓	✓	X	✓		X
Uno II	✓	✓	X	X		✓
TRobot	✓	✓	X	✓		✓
T1	✓	✓	X	✓		✓
T Gradient 96er Block	✓	✓	✓	✓		X
Bio-Rad						
iCycler, real-time	✓	✓	✓	X	X	
Eppendorf						
Mastercycler Gradient	✓	✓	✓	✓	✓	✓
Ericom						
SingleBlock System		✓	X	X		X
TwinBlock		✓	X	X		X
Deltacycler		✓	X	X		X
MJ Research						
PTC-200	✓	✓	✓	✓	✓	✓
PTC-225	✓	✓	✓	✓	✓	✓
PTC-100	✓	✓		✓	✓	X
Opticon 2 System, real-time		X		✓	✓	
MWG						
THEQ				✓		
Stratagene						
Robocycler 96/384	X	X	X	X	✓	✓
Gradient Temp. Cycler		✓	✓	✓		X
MX3000P/4000 Multiplex, QPCR Syst.		✓				
Techne						
Touchgene Gradient		✓	✓	✓	✓	
Genius		✓	✓	✓	✓	✓
Flexigene		✓	✓	✓	✓	✓
Quantica, real-time				✓	✓	
Thermo Hybaid						
Primus 96		✓	X	✓		X
PCR Express	✓	✓	✓	✓		✓
OMN-E		✓	✓	✓	✓	X
Px 2 / PxE		✓	✓	✓	✓	✓
Transgenomic						
Wave Nucleic Acid Fragment Anal. Syst.		✓				

Legend:



= recommended



= not recommended

= information not available

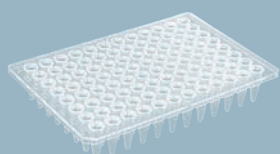
DuoPlate PCR Plates



The new generation of PCR plates in a dual material design

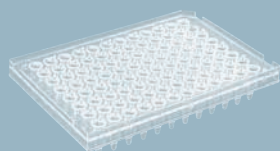
In comparison to single-component polypropylene plates, the characteristic feature of the DuoPlate PCR plates is a combination of two different materials that stand out for their excellent anti-torsion quality and rigidity. Consequently, concerns like distortion, shrinkage and sample loss which occur occasionally during PCR cycles with single-component PCR plates are minimised.

- ☐ **Enhanced sealing characteristics**
Thermo-stable frame minimises leakage/sample loss
- ☐ **Optimal compatibility with high-throughput systems**
Dual material design enables precise and safe use in automated systems
- ☐ **Maximum biological and technological safety**
Certified PCR Performance Tested quality guarantees absence of human DNA, RNase/DNase and PCR inhibitors, together with 100% leak testing of ultra-thin PP wells
- ☐ **Optimized for real-time PCR**
DuoPlate Fluo (white wells, black frame), especially developed for maximum signal intensity and minimised cross talk



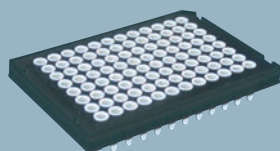
NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1960.202	96 well DuoPlate/ 0.3 ml	neutral	Non-skirted	10/bag, 50/case



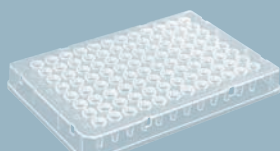
NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1962.202	96 well DuoPlate/ 0.3 ml	neutral	Half skirt	10/bag, 50/case



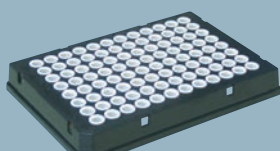
NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1962.212	96 well DuoPlate Fluo/ 0.3 ml	black/ white	Half skirt	10/bag, 50/case



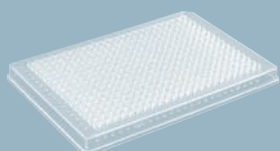
NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1964.202	96 well DuoPlate/ 0.2 ml	neutral	Full skirt	10/bag, 50/case



NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1964.212	96 well DuoPlate Fluo/ 0.2 ml	black/ white	Full skirt	10/bag, 50/case



NEW

Order Number	Description/max. Vol.	Colour	Design	Packaging
72.1968.202	384 well DuoPlate/ 40 µl	neutral	Full skirt	10/bag, 50/case

Compatibility Table DuoPlates

The new generation of PCR plates in a dual material design

The following options are available for major thermocyclers and sequencers:

Description ▼ Instrument	DuoPlate ►			
	NEW DuoPlate 96 well Non-skirted Order No. 72.1960.202	NEW DuoPlate 96 well Half skirt Order No. 72.1962.202 72.1962.212	NEW DuoPlate 96 well Full skirt, low profile Order No. 72.1964.202 72.1964.212	NEW DuoPlate 384 well Full skirt Order No. 72.1968.202
Amersham Bioscience				
MegaBace 4000 DNA Analysis System				✓
MegaBace 1000 DNA Analysis System (new model)			✓	
MegaBace 500 DNA Analysis System			✓	
Applied Biosystems				
PE 2700		✓		
PE 9600	✓	✓		
PE 9700	✓	✓		
Gene Amp 9600	✓	✓		✓
Gene Amp 9700	✓	✓		✓
Gene Amp 7500/5700 Seq. D.S.		✓		
ABI Prism 7000		✓		
ABI Prism 7300 Real-Time PCR-System		✓		
ABI Prism 7500 Real-Time PCR-System		✓		
ABI Prism 7700		✓		
ABI Prism 7900HT, Real-Time		✓		✓
ABI Prism 7900HT, Fast Real-Time PCR-System		✓		✓
Seq. ABI Prism 3100 Genetic Analyser		✓		
Seq. ABI 3700		✓		✓
Seq. ABI 3730/3730x Genetic Analyser		✓		✓
Biometra				
Uno	✓		✓	
Trobot	✓		✓	
T1	✓		✓	✓
T Gradient	✓		✓	
Bio-Rad / MJ Research				
iCycler, real-time	✓			
iQ5, real-time	✓			
MyCycler	✓			
PTC-200	✓		✓	✓
PTC-225	✓		✓	✓
PTC-100	✓		✓	
Opticon 2 System, Real-time			✓	
Corbett Research				
Palm Cycler			✓	
Eppendorf				
Mastercycler Gradient	✓		✓	
Mastercycler ep gradient	✓		✓	
Mastercycler ep 384				✓
MWG				
Primus 96	✓		✓	
Primus 384				✓
The Q-Lifecycler	✓		✓	
Stratagene				
Robocycler 96/384				✓
Techne				
TC412/TC512			✓	✓
Quantica, real-time			✓	
Thermo Hybaid				
PCR Express	✓		✓	✓
Px2 / PxE	✓		✓	✓

Legend:



= recommended

= information not available

SafeSeal Micro Tubes

NEW SafeSeal Micro Tubes

... provide maximum sample security for general laboratory use, particularly for thermal applications.

0.5, 1.5 and 2.0 ml SafeSeal micro tubes are available in two additional purity qualities to meet the requirements in medical and molecular-biological research.











PCR Performance Tested

☐ DNase-/RNase-free, Human DNA-free, PCR inhibitor-free

Biosphere®

☐ Sterile, DNA-, RNase-, ATP-free and non-pyrogenic

To reduce storage time in open bags and inherent contamination risks, Biosphere® Micro Tubes are packaged 50 pieces per bag. For more stringent demands in sample preparation, individually wrapped SafeSeal micro tubes in Biosphere® quality are now available to exclude potential risks of contamination.

Order Number	Description	Volume	Pcs./ Bag	Pcs./ Inner case	Packaging Pcs./Case
72.704.200		0.5 ml	50	250	500
72.704.400		0.5 ml	250	500	2,000
72.706.201		1.5 ml	ind. wrapped	60	120
72.706.200		1.5 ml	50	250	500
72.706.400		1.5 ml	250	1,000	2,000
72.695.201		2.0 ml	ind. wrapped	60	120
72.695.200		2.0 ml	50	250	500
72.695.400		2.0 ml	250	1,000	2,000

Low Protein Binding Micro Tubes


NEW

Minimum protein binding = maximum recovery rate = minimum protein loss



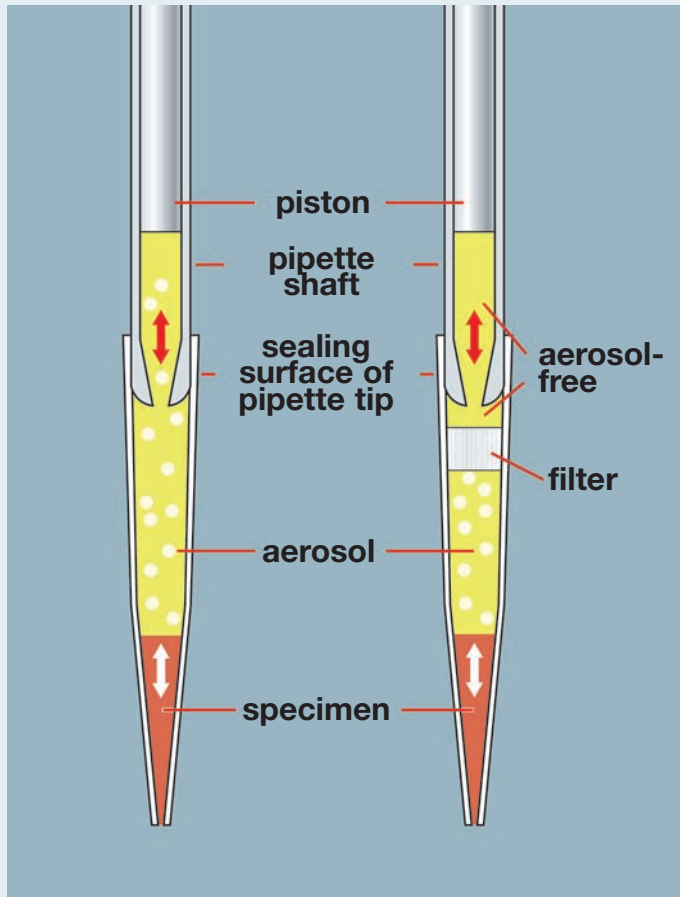
As the trend toward decreasing sample volumes continues, it becomes increasingly important to minimise potential interaction between the analyte and tube. In response to this demand, our new low protein binding micro tube is specially designed to meet the requirements in protein analytics while maximising protein recovery rates.

Aside from low sample volumes, minimising protein loss is particularly essential for low protein concentrations to enable further analysis.

Order Number	Volume	Version	Packaging
72.690.600	1.5 ml		100 pcs./ bag 200 pcs./ inner case 800 pcs./ case

Biosphere® Pipette Tips with Filter

Certified purity - more than just sterile



Many fields of modern research and analytics use highly sensitive techniques such as PCR as a standard procedure. Using pipette tips with integral filter constitutes an easy and safe measure to reduce the risk of carry-over contamination. The exact positioning of the filter barrier prevents the filter material from being contaminated with the sample liquid, thus enabling contamination-free pipetting of DNA, RNA, toxic or infectious specimens.



Filter serving as an aerosol barrier

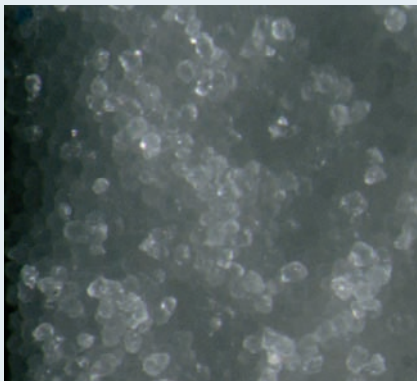
The filter in the pipette tip serves as an aerosol barrier against air pollutants likely to contaminate the pipette in the aspiration process. Thus, any subsequent pipetting procedures with a new tip and specimen are protected against cross contamination. Sarstedt's Biosphere® quality and purity standard apply to filter tips with a variable range from 0.1 µl to 1,250 µl.

Economical packaging in bags

Non-sterile filter tips for loading into empty boxes (refer to pp. 80) are packaged in small, economical, bagged units that are certified **PCR Performance Tested**.



Laboratory Products



Cross section of a porous filter element (40-fold magnification)

Reliable safety with selected filter materials

The filter element integrated in the pipette tips consists of a porous plastic material featuring defined hydrophobic properties and no self-sealing additives.

- ▶ The sponge-like material is densely composed of randomly arranged channels (see picture on left), enabling air to pass for precision when using air displacement pipettes.
- ▶ Simultaneously, the complex structure of the porous filter safely prevents aerosols from entering the pipette shaft. (Reference 20386)

For more information, Sarstedt's Application Report 'Shielding effect of filter inserts in pipette tips' is available upon request.

Added protection with Biosphere® purity quality

- ✓ Maximum biological purity: free from DNA, RNase, ATP and pyrogens
- ✓ Batch-specific certification is available upon request

Convenient and safe packaging of individual tip boxes


































- ✓ Each tip box is additionally and aseptically protected in a special sterile bag packaging
- ✓ Easy opening of bag packaging without aid via notch at short bag side (see picture)



Quality tips with filter














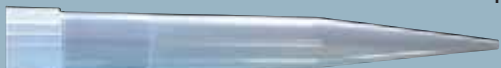







Ordering Information



Filter tips/Type (Illustrations 1:1)	Order Number	Max. Sample Volume/ Colour	Quality Grade	Packaging
NEW  Type E Colour code tray: grey	70.1130.212	2.5 µl, neutral		96/box 480/inner box 1,920/case
 Type E Colour code tray: grey	70.1130.210	10 µl, neutral		96/box 480/inner box 1,920/case
	70.1130.410	10 µl, neutral		480/bag (loose) 4,800/case
 Type E long Colour code tray: grey	70.1131.210	10 µl, neutral		96/box 480/inner box 1,920/case
 Type D Colour code tray: light grey	70.1115.210	10 µl, neutral		96/box 480/inner box 1,920/case
	70.1115.410	10 µl, neutral		480/bag (loose) 4,800/case
 Type D Colour code tray: light grey	70.1115.212	20 µl, neutral		96/box 480/inner box 1,920/case
NEW  Type J Colour code tray: light grey	70.1116.210	10 µl, neutral		96/box 480/inner box 1,920/case
 Type A Colour code tray: yellow	70.760.213	20 µl, yellow		96/box 480/inner box 1,920/case
	70.760.413	20 µl, yellow		480/bag (loose) 4,800/case
 Type A Colour code tray: yellow	70.760.212	100 µl, yellow		96/box 480/inner box 1,920/case
	70.760.412	100 µl, yellow		480/bag (loose) 4,800/case
 Type C Colour code tray: yellow	70.760.211	200 µl, neutral		96/box 480/inner box 1,920/case
	70.760.411	200 µl, neutral		480/bag (loose) 4,800/case
NEW  Type L Colour code tray: orange	70.765.210	300 µl, neutral		96/box 480/inner box 1,920/case
 Type B Colour code tray: blue	70.762.211	1,000 µl, blue		100/box 500/inner box 1,000/case
	70.762.411	1,000 µl, blue		200/bag (loose) 2,000/case
NEW  Type M not to scale, length 103 mm Colour code tray: blue	70.1186.210	1,250 µl, neutral		96/box 768/case
	70.1186.410	1,250 µl, neutral		384/bag (loose) 3,840/case
 Type A Colour code tray: yellow	70.760.218	100 µl, black, conductive tips		96/box 480/inner box 1,920/case

Quality tips without filter

Tips in bags, boxes or space-saving Tip StackPack system

Tips without filter/Type (Illustrations 1:1)		Order Number	Max. Sample Volume/ Colour	Quality Grade	Packaging
	Type E Colour code tray: grey	70.1130	10 µl, neutral		1,000/bag, 10,000/case
		70.1130.100			96/box, 1,920/case
		70.1130.200			96/box, 480/inner box, 1,920/case
		70.1130.600			Tip StackPack 96/tray, 576/StackPack, 2,304/case
	Type E long Colour code tray: grey	70.1131	10 µl, neutral		500/bag, 10,000/case
		70.1131.100			96/box, 1,920/case
	Type D Colour code tray: light grey	70.1115	10 µl, neutral		1,000/bag, 10,000/case
		70.1115.100			96/box, 1,920/case
		70.1115.200			96/box, 480/inner box, 1,920/case
	Type J Colour code tray: light grey	70.1116	20 µl, neutral		1,000/bag, 10,000/case
		70.1116.100			96/box, 1,920/case
		70.1116.200			96/box, 480/inner box, 1,920/case
	Type A Colour code tray: yellow	70.760.002	200 µl, yellow		500/bag, 10,000/case
		70.760.202			96/box, 480/inner box, 1,920/case
		70.760.502			Tip StackPack 96/tray, 480/StackPack, 1,920/case
	Type C Colour code tray: yellow	70.760.001	250 µl, neutral		500/bag, 10,000/case
		70.760.201			96/box, 480/inner box, 1,920/case
		70.760.501			Tip StackPack 96/tray, 480/StackPack, 1,920/case
	Type L Colour code tray: orange	70.765	300 µl, neutral		500/bag, 5,000/case
		70.765.100			96/box, 1,920/case
		70.765.200			96/box, 480/inner box, 1,920/case
	Type B Colour code tray: blue	70.762	1,000 µl, blue		250/bag, 5,000/case
		70.762.100			100/box, 1,000/case
		70.762.200			100/box, 500/inner box, 1,000/case
	Type M not to scale, length 103 mm Colour code tray: blue	70.1186	1,250 µl, neutral		384/box, 3,840/case
		70.1186.100			96/box, 3,840/case
		70.1186.200			96/box, 768/case
	Type F Colour code tray: light grey	70.1182	10-200 µl, neutral		250/bag, 10,000/case
		70.1182.500			Tip StackPack 96/tray, 480/StackPack, 1,920/case
	Type G	70.1181	250-1,000 µl, neutral		250/bag, 5,000/case
	Type I	70.783	neutral		250/bag, 5,000/case
	Type K	70.761	1-200 µl, neutral		250/bag, 5,000/case

Type H: Tips for Ortho BioVue-System -360 µl, 250/bag, 5,000/case Order Number 70.763, 100/box, 1,000/case Order Number 70.763.100.

Biosphere® Pipette Tips with filter (illustrations 1:1)

Quality Pipette Tips without filter (illustrations 1:1)

● = max. pipetting volume 10 = limited pipetting volume
MC = Multi-channel

Pipette suppliers occasionally rework or carry out technical modifications to the pipette cones of their pipettors so that the information provided in the Compatibility Table constitutes a recommendation only. In case of doubt, free sample tips are available on request to test the optimum fitting and ejection behaviour of our tips when used on your pipettes.

Tip Handling

Tip SystemBox

- ☐ Economic, versatile and simple to use
- ☐ Compact, environmentally friendly, and reusable



Tip SystemBox

The autoclavable (important notes on autoclaving: see p. 163) Tip SystemBox is the central work station for all 96-tip Sarstedt trays.

Complete with hinged lid and anti-slip base, the Tip SystemBox readily accommodates refill trays from Tip StackPack or empty trays for racking.

Empty, colour-coded refill trays are available separately. See page 85 for ordering information.

Order Number	Description	Packaging Pcs./Case
95.1298.001	Tip SystemBox	6

The Tip SystemBox: Central Pipetting Station

Simple and practical



Flexible and cost-effective



Empty 96-tip refill trays and bulk tips

Suitable for manually racking bulk tips for autoclaving and convenient handling.



Economic and environmentally friendly



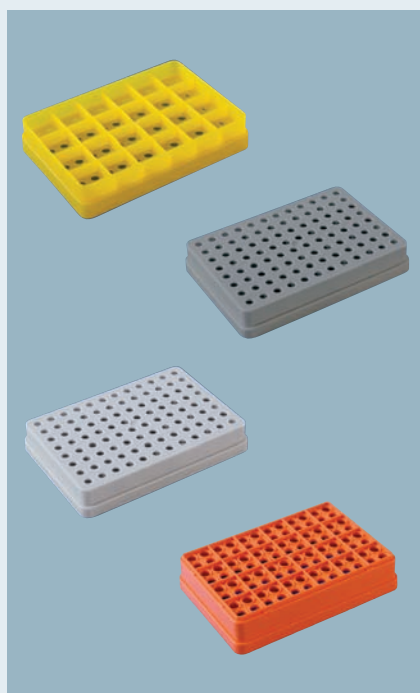
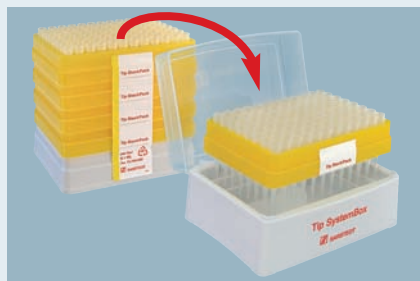
Tip StackPack

Efficient handling of 96-tip trays, reduced packaging and storage space.



Tip Handling

Tip StackPack and Refill Trays



Tip StackPack

Flexible, efficient and easy to use

Trays pre-loaded with 96 tips are stacked five or six high with only one base and cover, reducing packaging waste and storage space by more than 50%.

- ☐ For high tip throughput, tips can be handled directly from the StackPack. Trays are securely attached but are easily separated when the next tray of tips is needed.
- ☐ Trays can be removed from the Tip StackPack and placed in the Tip SystemBox for individual use, i.e. to autoclave one 96-tip tray, without adjustment aids.
- ☐ Tip types A, C, E and F (see pages 81) are available in the Tip StackPack format.

Empty refill trays for use in the Tip SystemBox

Users who purchase tips loose in bags may load empty trays (grey, yellow, orange) in the Tip SystemBox.

- ☐ Place the empty tray in the Tip SystemBox.
- ☐ Load the tray with tips.
- ☐ If necessary, autoclave (important notes on autoclaving: see p. 163) the tips in the Tip SystemBox

Order Number	Colour Code Tray	Type*	Packaging Pcs./Case
95.1760.011	yellow	A, C	25
95.1760.022	light grey	D, J	25
95.1760.033	dark grey	E long	25
95.1760.034	dark grey	E	25
95.1760.044	orange	L	20

* pipette tips on pp. 80-81

Empty boxes for bulk 1,000 - 1,250 µl tips

Order Number	Type*	Empty Box	Packaging Pcs./Case
95.1762	B for 1,000 µl tip	Base section, tray, lid	10
95.1763	M for 1,250 µl tip	Base section, tray, lid	8

Macro Volume Tips, Robotic Tips

NEW

5 ml Pipette tips

- ☐ Pipette tip box is designed for multiple use, autoclavable*
- ☐ Pipette tips with graduation

Order Number	Compatible with	Description	Packaging
70.1183.001	Gilson Pipetman P 5000, Rainin P 5000	loose in bag, non-sterile	250/bag 2,500/case
70.1183.101		Box, non-sterile	50/box 500/case
70.1183.002	Eppendorf Research 0.5 – 5 ml, Biohit 1 – 5 ml, Socorex	loose in bag, non-sterile	250/bag 2,500/case
70.1183.102		Box, non-sterile	50/box 500/case

10 ml Pipette tips

- ☐ Pipette tip box is designed for multiple use, autoclavable*





Order Number	Compatible with	Description	Packaging
70.1187.001	Eppendorf Research 1 – 10 ml, Brand Transferpette S, Gilson Pipetman P 10 ml, Rainin	loose in bag, non-sterile	200/bag 2,500/case
70.1187.101		Box, non-sterile	25/box 250/case

NEW




Pipette tips for Beckman Coulter pipetting robots

- ☐ All tips are DNase-/RNase- and human DNA-free. Sterile tips are additionally tested to be non-pyrogenic
- ☐ All tips racked in coloured tip trays for easy allocation of tips and volumes

Pipette tips for Biomek 1000/2000

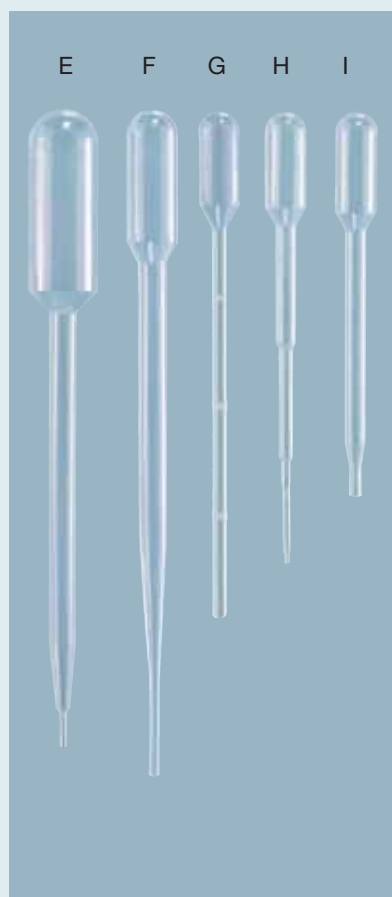
Volume	20 µl	50 µl	250 µl	1000 µl
Type	A	B	C	D
Colour code, tray				
Tip w/o filter, non-sterile	70.1140.101	70.1141.101	70.1142.101	70.1143.101
Tip w/o filter, sterile	70.1140.201	70.1141.201	70.1142.201	70.1143.201
Tip with filter, sterile	70.1140.211	70.1141.211	70.1142.211	-----
Packaging	96/box 4,800/case	96/box 4,800/case	96/box 4,800/case	72/box 3,600/case

Pipette tips for Biomek FX/NX, Biomek 3000

Volume	20 µl	50 µl	250 µl
Type	E	F	G
Colour code, tray			
Tip w/o filter, non-sterile	70.1140.102	70.1141.102	70.1142.102
Tip w/o filter, sterile	70.1140.202	70.1141.202	70.1142.202
Tip with filter, sterile	70.1140.212	70.1141.212	70.1142.212
Packaging	96/box 4,800/case	96/box 4,800/case	96/box 4,800/case

* Important notes on autoclaving: see p. 163

Transfer Pipettes



- ☐ Versatile application when transferring liquid in laboratories
- ☐ No risk of injury or infection from broken glass
- ☐ Single-use, no carry over or cross contamination
- ☐ Practical graduations for sample measurement and transfer
- ☐ Can be heat-sealed for sample storage and transport
- ☐ Polyethylene is a pure hydrocarbon compound, environmentally neutral, ensuring non-toxic disposal

Transfer pipettes from LD-PE

Order Number	Type	Length mm	Bulb Volume	Drop Size	Graduation	Packaging Pcs./Case
86.1174	A	152	6.0 ml	40-55 μ l	-	1,600
86.1171	B	155	3.5 ml	35-55 μ l	3:0.50	2,000
86.1172	C	156	3.5 ml	30-45 μ l	1:0.25	2,000
86.1173	D	155	3.5 ml	30-45 μ l	-	2,000
86.1175	E	146	6.0 ml	20-30 μ l	-	1,600
86.1176	F	154	2.0 ml	35-45 μ l	-	3,000
86.1170	G	115	1.0 ml	45-55 μ l	1:0.10	2,000
86.1180	H	104	1.0 ml	17-22 μ l	-	3,000
86.1179	I	87	1.0 ml	30-45 μ l	-	3,000

Transfer pipettes, individually wrapped and sterile

Order Number	Type	Length mm	Bulb Volume	Drop Size	Graduation	Packaging Pcs./Case
86.1171.001	B	155	3.5 ml	35-55 μ l	3:0.50	840
86.1172.001	C	156	3.5 ml	30-45 μ l	1:0.25	840
86.1175.001	E	146	6.0 ml	20-30 μ l	-	840

Transfer pipettes, 10 per bag, sterile

Order Number	Type	Length mm	Bulb Volume	Drop Size	Graduation	Packaging Pcs./Case
86.1171.010	B	155	3.5 ml	35-55 μ l	3:0.50	1,000
86.1172.010	C	156	3.5 ml	30-45 μ l	1:0.25	1,000
86.1175.010	E	146	6.0 ml	20-30 μ l	-	800

LD-PE = Low Density polyethylene

Different sizes of sterile wrapped transfer pipettes are available on request.

Transport Swabs



Neutral transport swab, sterile

- ☐ For use on intact skin and in natural body openings
- ☐ Ideal for transportation
- ☐ Long and short stem versions available
- ☐ Loose sterile, packed in PE-bags

Order Number	Dimensions of Tube mm	Stem Material Length mm	Swab Material	Packaging Bag/Case
80.625	16.5/101	Plastic/85	Cotton wool	500/500
80.1301	12/155	Plastic/135	Viscose	100/1,000
80.1303	12/155	Aluminum/145	Viscose	100/1,000



Transport swab with Amies Transport Medium

- ☐ Transport tube and swab individually wrapped and sterile in practical easy-peel pack
- ☐ Maximum protection for even the most fastidious organisms during transportation
- ☐ Suitable for aerobic and anaerobic organisms
- ☐ Aluminium wire or plastic stem versions available

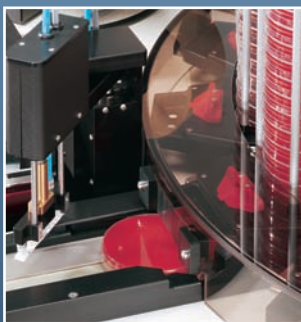
Order Number	Dimensions of Tube mm	Stem Material Length mm	Swab Material	Packaging Pcs./Case
80.1361	12/155	Plastic/145	Viscose	500
80.1363	12/155	Aluminium/140	Viscose	500

Transport swab with Amies Transport Medium and charcoal

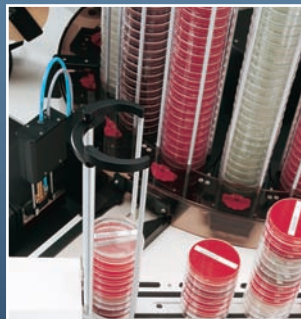
Order Number	Dimensions of Tube mm	Stem Material Length mm	Swab Material	Packaging Pcs./Case
80.1362	12/155	Plastic/145	Viscose	500
80.1366	12/155	Aluminium/140	Viscose	500

P.O.S. 720

- Reliable provision of all Petri dishes required
- 720 plates per hour
- Perfect bar code labelling and clear alphanumeric printing
- Allocation of dishes to individual work stations
- Reliable identification of dishes throughout the process
- Labor saving



Petri dishes are labeled by batch or in accordance with lab EDP request form.



Up to 8 stacks of 20 dishes are available from the conveyor belt for further processing.



DishRack 80/50

Ideal rack for accommodation or temporary storage and transport of labeled dishes to the individual work station (additional information on p.91).

Petri Dishes, Inoculation Loops



Petri dishes for bacteriology

Made from clear polystyrene, heat resistant up to 80° C.

Order Number	Ø / Height mm	Ventilation Cams	Packaging Bag/Case
82.1184	150/20 gamma-sterile	with	10/100
82.1472	92/16	without	20/480
82.1473	92/16	with	20/480
82.1472.001	92/16 gamma-sterile	without	20/480
82.1473.001	92/16 gamma-sterile	with	20/480
82.1194	60/15 gamma-sterile	with	20/500
82.1135	35/10 gamma-sterile	with	20/500

Petri dishes, coloured, with ventilation cams

Order Number	Ø / Height mm	Colour	Packaging Bag/Case
82.1473.020	92/16	red	20/480
82.1473.040	92/16	yellow	20/480
82.1473.060	92/16	blue	20/480
82.1473.080	92/16	green	20/480

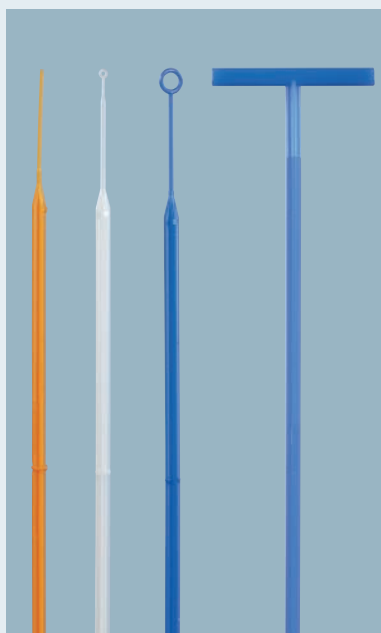
Petri dish, round, with 2 compartments

Order Number	Ø / Height mm	Ventilation Cams	Packaging Bag/Case
82.1195	92/16	with	20/480

Petri dish, square

Order Number	Length x Width x Height mm	Ventilation Cams	Packaging Bag/Case
82.9923.422	100 x 100 x 20 gamma-sterile	without	4/160

DishRack for Petri dishes 92/16 on p. 91.



Gamma-sterile inoculation loops, inoculation needle and inoculation spreader from polystyrene

- ☐ Time-saving for laboratories with high work loads
- ☐ Easy to use
- ☐ Safe – no pathogenic aerosol and cross contamination

Order Number	Description	Colour	Packaging
86.1562.010	10 µl loop	blue	10/peel pack 1,000/case
86.1562.050	10 µl loop	blue	48/peel pack 1,920/case
86.1567.010	1 µl loop	white	10/peel pack 1,000/case
86.1567.050	1 µl loop	white	50/peel pack 2,000/case
86.1568.010	needle	orange	10/peel pack 1,000/case
86.1568.050	needle	orange	50/peel pack 2,000/case
86.1569.001	inoculation spreader	blue	1/bag, sterile 500/case
86.1569.005	inoculation spreader	blue	5/bag, sterile 500/case



DishRack – the practical Petri dish rack

DishRack for well organised and systematic working

DishRack is perfectly suited to accommodate, transport and store Petri dishes. DishRack facilitates and helps to organise individual working processes. Take your choice from a selection of 5 different colours and exchangeable writing strips.

DishRack for optimum handling

Knocking over unstable stacks of dishes is now a thing of the past. With DishRack you have a firm grip on up to 88 Petri dishes in one step. Dishes may be taken from the rack at random, thus alleviating the laborious task of rearranging the whole stack. Whether at the analytical workstation, in the incubator or for sample storage - DishRack is a valuable aid for multipurpose applications.

DishRack – the robust and safe transport aid

Elastic silicone strips ensure secure hold of the dishes in the rack even if exposed to heavy shaking and movement in transport.

DishRack – made from resistant material

The DishRack is made from breakproof polycarbonate (PC) material.

DishRack – available in 2 versions

DishRack 50 for up to 52 Petri dishes Ø 92

DishRack 80 for up to 88 Petri dishes Ø 92



DishRack 50

Order Number	Colour	Height in cm
93.1647	neutral	24
93.1647.001	red	24
93.1647.002	yellow	24
93.1647.003	blue	24
93.1647.004	green	24

Elastic silicone strips, separate, **Order Number 93.1647.050**

DishRack 80

Order Number	Colour	Height in cm
93.1646	neutral	36
93.1646.001	red	36
93.1646.002	yellow	36
93.1646.003	blue	36
93.1646.004	green	36

Elastic silicone strips, separate, **Order Number 93.1646.080**

Certified Tissue Culture Products

In the field of cell and tissue culture, compliance with strict purity standards is essential to achieving reliability and consistency for in vitro applications.

Today, cell and tissue cultures are not only used in basic research but also in applied biotechnology and clinical research. Cell cultures are also increasingly used in toxicity tests, for quality control of chemical and biological products as well as for industrial applications, e.g. manufacturing monoclonal antibodies etc.

Sarstedt produces sterile disposables for sophisticated cell culture research. In particular, this range includes the following products:



- TC Flasks
- TC Dishes
- 96/24/6 Well TC Plates
- Cell Scrapers
- Filtration units

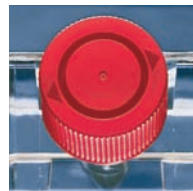
To meet this growing demand and in accordance with our guiding principle that products coming into contact with cells must not have an adverse effect on the cells, these products are manufactured under stringent purity conditions and subjected to comprehensive quality testing. The final product is then certified non-pyrogenic and non-cytotoxic and marked with the "**Come Grow With Us**" quality symbol.

All tissue culture products meet the following requirements:

- | | |
|------------------------|---|
| ✓ Sterile | In accordance with DIN EN ISO and AAMI Guideline "Sterilization of Medical Devices - Validation and Routine Control of Sterilization by Irradiation" |
| ✓ Non-pyrogenic | Based on the LAL Test in accordance with the FDA Guidelines on Medical Devices |
| ✓ Non-cytotoxic | In accordance with DIN EN ISO 10993 - "Biological Evaluation of Medical Devices - Part 5, Test on in-vitro Cytotoxicity" |

New Generation of Tissue Culture Flasks

...with the new Quick-Release Cap



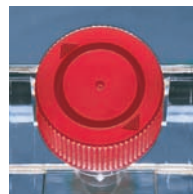
Closed

Maximum **1/3 turn** for ergonomic **opening/closing** of the flask



Vented position

Lock the cap in the defined vented position **by a simple turn**

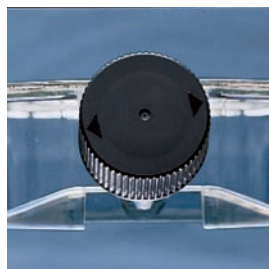


Open

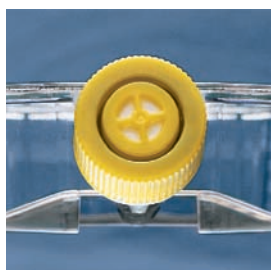
Remove the cap by a quick **1/8 turn** from the vented position

...with the new colour code system that offers maximum flexibility

Depending on the cell's affinity to the growth surface and the user's requirements, three different colour coded surface options are available.



Adherent cells are easily cultivated in tissue culture flasks with a traditional tissue culture surface that are coded with a red or black quick-release cap.



Primary, established epithelial, and other fastidious cell lines that are difficult to grow on traditional surfaces may grow better on the growth surface offered by **Cell+** coded with a yellow quick-release cap.

A special coating of the growth surfaces with polylysines, collagens, or gelatins is often not necessary.



Special flasks with a hydrophobic surface that minimises cell loss attributed to unwanted cell attachment are coded with a green quick-release cap.

Problem-free cultivation of suspension and hybridoma cultures thanks to the hydrophobic growth surface.

Quick detachment of cells from the surface can be achieved by gently tapping the flasks.

Cell⁺ Tissue Culture Products

Tissue culture products for adherent cells



Cell⁺ growth surface for sensitive cell cultures




Cell⁺ TC products for the growth of primary cultures and other fastidious cell lines are gamma-sterilised and made from high-quality polystyrene.

Cell⁺ TC products particularly support the growth of various fastidious cell lines:

- ☐ Primary cultures
- ☐ Continuous cell lines
- ☐ Cells that normally require a coating of collagen, gelatin or polylysine for growth
- ☐ Cell lines that grow poorly on standard surfaces

Cell⁺ TC flasks with quick-release cap

- ☐ Yellow cap with and without ventilation - Plug Seal Cap
- ☐ Two-position screw cap with locking mechanism
- ☐ Anti-tip skirt at canted neck

Order Number	Growth Area cm ²	Volume ml	Screw Cap	Neck Shape	Packaging Bag/Case
83.1810.300 83.1810.302 w. ventilation	25 25	50 50	PE PE	 *	20/300 20/300
83.1813.300 83.1813.302 w. ventilation	75 75	250 250	PE PE	 *	5/100 5/100
83.1812.300 83.1812.302 w. ventilation	175 175	650 650	PE PE	 *	5/40 5/40

* with pouring channel · Replacement caps for TC flasks on p. 95.




Cell⁺ TC dishes in SUREGrip Design

- ☐ Convenient handling due to a raised ring around the circumference of the dish, enabling an easy and secure grip of both the dish and lid, even from a whole stack.

Order Number	Growth Area cm ²	Ø/Height mm	Packaging Bag/Case
83.1800.003	8	35/10	20/500
83.1801.003	21	60/15	20/500
83.1802.003	58	100/20	20/300
83.1803.003 non-SUREGrip	152	150/20	10/100

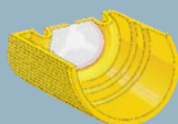
Cell⁺ TC plates with lid

- ☐ Lid with condensation rings
- ☐ Wells with raised rims
- ☐ Lid can only be placed onto the plate in one direction
- ☐ Stackable

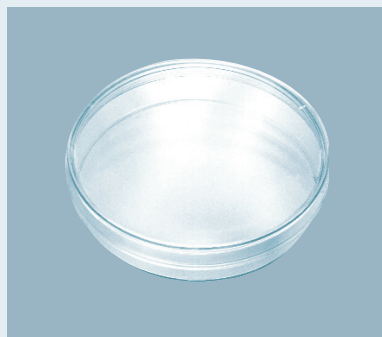
Order Number	Growth Area cm ²	Max. Volume per Well	Number of Wells	Base Shape	Packaging Bag/Case
83.1835.300	0.35	0.38 ml	96		1/50
83.1836.300	2.0	3.6 ml	24		1/50
83.1839.300	9.5	17.2 ml	6		1/50



PE ventilation cap



Non-wettable 0.2 µm hydrophobic filter membrane for reproducible gaseous exchange

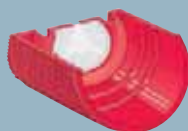


Tissue Culture Products

TC products for adherent cells



PE ventilation cap



Non-wettable 0.2 µm hydrophobic filter membrane for reproducible gaseous exchange

Tissue culture flasks with quick-release screw cap

- ☐ Two-position screw cap with positive venting mechanism
- ☐ With or without ventilation cap
- ☐ Made from high-quality polystyrene
- ☐ Sterilised by gamma irradiation
- ☐ Hydrophilic surface for optimal attachment and growth of adherent cells
- ☐ Anti-tip skirt at canted neck



Tissue culture flasks with red cap, with or without ventilation - Plug Seal Cap

Order Number	Growth Area cm ²	Volume ml	Screw Cap	Neck Shape	Packaging Bag/Case
83.1810 83.1810.002 w. ventilation	25 25	50 50	PE PE	*	20/300 20/300
83.1811 83.1811.002 w. ventilation	75 75	250 250	PE PE		5/100 5/100
83.1813 83.1813.002 w. ventilation	75 75	250 250	PE PE	*	5/100 5/100
83.1812 83.1812.002 w. ventilation	175 175	650 650	PE PE	*	5/40 5/40

* = with pouring channel

Tissue culture flasks with black cap - Rim Seal Cap

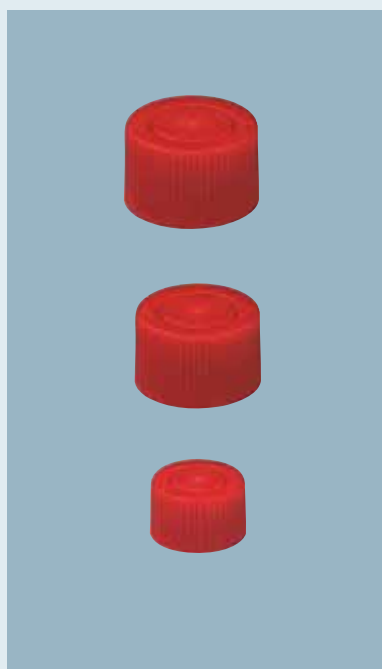
Order Number	Growth Area cm ²	Volume ml	Screw Cap	Neck Shape	Packaging Bag/Case
83.1810.001	25	50	PP	*	20/300
83.1811.001	75	250	PP		5/100
83.1813.001	75	250	PP	*	5/100
83.1812.001	175	650	PP	*	5/40

* = with pouring channel

Replacement caps for TC flasks with positive venting mechanism

- ☐ To replace contaminated screw caps
- ☐ For gastight closing of ventilation flasks

Order Number	Flask Type	Packaging	Packaging Pcs./Case
83.1890.025	T – 25	ind. wrapped, sterile	100
83.1890.075	T – 75 canted neck	ind. wrapped, sterile	100
83.1890.175	T – 175	ind. wrapped, sterile	50



Tissue Culture Products

TC products for adherent cells



TC plates with lid

- ☐ Lid with condensation rings
- ☐ Wells with raised rims
- ☐ Lid can only be placed onto the plate in one direction
- ☐ Stackable

Order Number	Growth Surface cm ²	Number of Wells	Max. Volume	Base Shape	Description	Packaging Bag/Case
83.1835	0.35	96	0.38 ml		with lid	1/50
83.1836	2.0	24	3.6 ml		with lid	1/50
83.1837	0.35	96	0.38 ml		with lid	1/50
83.1838	0.35	96	0.38 ml		with lid	1/50
83.1839	9.5	6	17.2 ml		with lid	1/50

Tapes for Genomic, HTS, compound storage

Order Number	Description	Tape material	Packaging Pcs./Case
95.1994	transparent	polyolefin	100
95.1995	non-transparent	aluminum	100

Tapes for standard applications

(ELISA plates, sample storage -40°C to 100°C)

Order Number	Description	Tape material	Packaging Pcs./Case
82.1586	transparent	acetate	100

Tissue culture dishes in SUREGrip Design

- ☐ Convenient handling due to a raised ring around the circumference of the dish, enabling an easy and secure grip of both the dish and lid, even from a whole stack.

Order Number	Growth Area cm ²	Ø/Height mm	Description	Packaging Bag/Case
83.1800	8	35/10	standard	20/500
83.1800.001	8	35/10	with grid	20/500
83.1801	21	60/15	standard	20/500
83.1801.001	21	60/15	with grid	20/500
83.1802	58	100/20	standard	20/300
83.1803 non-SUREGrip	152	150/20	standard	10/100

Tissue Culture Products

TC products for adherent cells



Roller bottle for mass cell culture

- ☐ Made from virtually unbreakable, clear polyethylene-terephthalate glycol (PETG)
- ☐ Printed graduations from 50 to 1400 ml
- ☐ Sterilised by gamma radiation, packed in 5 pieces

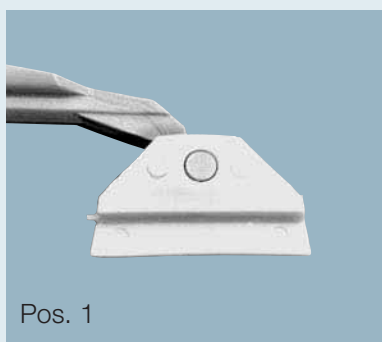
Order Number	Growth Area cm ²	Length/Ø mm	Packaging Bag/Case
83.1815	approx. 850	267/120	5/20



Coverslips for microscopy

- ☐ Highly transparent coverslips for culturing adherent cells
- ☐ Sterilised by gamma radiation

Order Number	Ø mm	Packaging Bag/Case
83.1840	25	25/200
83.1840.001	22	25/200
83.1840.002	13	25/200



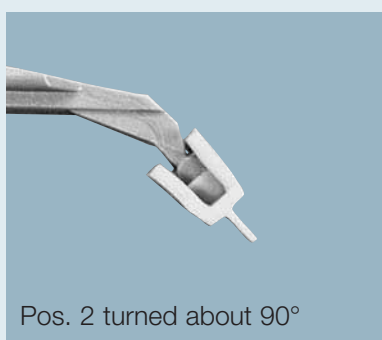
Cell scraper with soft, flexible blade

- ☐ An alternative to enzymatic detachment of monolayer cultures to avoid cell alterations
- ☐ Easy and more complete separation of monolayer due to extra thin and flexible blade
- ☐ When downward pressure is applied to the handle, the flexible blade can remove all cells in its path with one smear
- ☐ Sterilised by gamma radiation, individually wrapped



Cell scraper with 2-position blade

Order Number	Cell Scraper Length cm	Blade mm	Packaging Bag/Case
83.1830	25	17	1/100
83.1832	16	13	1/100



Cell scraper for use in larger TC flasks (T-175)

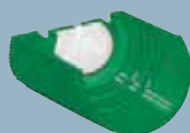
Order Number	Cell Scraper Length cm	Blade mm	Packaging Bag/Case
83.1831	39	31	1/100

Tissue Culture Products

TC products for suspension and hybridoma cells



PE ventilation cap



Non-wettable 0.2 µm hydrophobic filter membrane for reproducible gaseous exchange

- ☐ For minimisation of interactions between cell culture and growth surface
- ☐ Reduced cell loss due to hydrophobic surface
- ☐ Sterilised by gamma irradiation
- ☐ Anti-tip skirt at canted neck

Tissue culture flasks with green quick-release screw cap - with or without Plug Seal Cap

Order Number	Growth Area cm ²	Volume ml	Screw Cap	Neck Shape	Packaging Bag/Case
83.1810.500	25	50	PE		20/300
83.1810.502 w. ventilation	25	50	PE	*	20/300
83.1813.500	75	250	PE		5/100
83.1813.502 w. ventilation	75	250	PE	*	5/100
83.1812.500	175	650	PE		5/40
83.1812.502 w. ventilation	175	650	PE	*	5/40

* with pouring channel · Replacement caps for TC flasks on p. 95.

TC dishes in SUREGrip Design

- ☐ Convenient handling due to a raised ring around the circumference of the dish, enabling an easy and secure grip of both the dish and lid, even from a whole stack.

Order Number	Ø/Height mm	Description	Packaging Bag/Case
83.1800.002	35/10	hydrophobic surface	20/500
83.1801.002	60/15	hydrophobic surface	20/500
83.1802.002	100/20	hydrophobic surface	20/300

TC plates with lid

Order Number	Number of Wells	Max. Volume	Description	Base Shape	Packaging Bag/Case
83.1835.500	96	0.38 ml	with lid sterile		1/50
83.1837.500	96	0.31 ml	with lid sterile		1/50
83.1838.500	96	0.29 ml	with lid sterile		1/50
83.1836.500	24	3.6 ml	with lid sterile		1/50
83.1839.500	6	17.2 ml	with lid sterile		1/50



Filtropur Filter Systems



Syringe filter Filtropur S for filtration of aqueous solutions up to 100 ml

- ☐ Bio-compatible prefilter is free from binding agents, and membrane is free from wetting agents
- ☐ Low protein binding membranes
- ☐ Individually wrapped and sterile
- ☐ Non-pyrogenic



Filtropur S 0.45 yellow housing for sterilisation and particle removal from solutions

Order Number	Inlet/Outlet Connection	Filtration Surface	Pore Size	Packaging Bag/Case
83.1826	inlet luer-lock female outlet luer-lock male	5.3 cm ²	0.45 µm	1/50

Filtropur S 0.2 dark blue/neutral housing for sterile filtration

Order Number	Inlet/Outlet Connection	Filtration Surface	Pore Size	Packaging Bag/Case
83.1826.001	inlet luer-lock female outlet luer-lock male	5.3 cm ²	0.2 µm	1/50

Filtropur S plus 0.2, blue/opaque housing with integral glass prefilter, for sterile filtration of viscous solutions

Order Number	Inlet/Outlet Connection	Filtration Surface	Pore Size	Packaging Bag/Case
83.1826.102	inlet luer-lock female outlet luer-lock male	5.3 cm ²	0.2 µm	1/50

Filtropur V vacuum filtration unit / Filtropur BT bottle top filter

- ☐ Improved performance for sterile filtration
- ☐ Low protein and nucleic acid binding
- ☐ Time and cost saving by higher throughput
- ☐ Enhanced safety due to special, resistant Filtropur membrane
- ☐ Non-pyrogenic

Filtration units

Order Number	Description	Filtration Volume	Ø Membrane	Pore Size	Packaging Bag/Case
83.1822	Filtropur V 25	250 ml	65 mm	0.45 µm	1/12
83.1822.001	Filtropur V 25	250 ml	65 mm	0.20 µm	1/12
83.1823	Filtropur V 50	500 ml	85 mm	0.45 µm	1/12
83.1823.001	Filtropur V 50	500 ml	85 mm	0.20 µm	1/12

A sterile screw cap for the collection vessel is included with each filtration unit.

Bottle top filter for storage vessel with an outer diameter of 45 mm max.

Order Number	Description	Filtration Volume	Ø Membrane	Pore Size	Packaging Bag/Case
83.1822.100	Filtropur BT 25	250 ml	65 mm	0.45 µm	1/12
83.1822.101	Filtropur BT 25	250 ml	65 mm	0.20 µm	1/12
83.1823.100	Filtropur BT 50	500 ml	85 mm	0.45 µm	1/12
83.1823.101	Filtropur BT 50	500 ml	85 mm	0.20 µm	1/12

Receiver Bottle

Order Number	Description	Filtration Volume	Version	Packaging Bag/Case
83.1822.003	For Filtropur	250 ml	Screw cap assembled, individually wrapped, sterile	1/12
83.1823.003	BT 25 a. BT 50	500 ml		



Filtropur L – Pressure Filtration Units



Pressure filtration system Filtropur L with and without integral prefilter for the filtration of media, sera, buffers and other aqueous solutions

- ☐ Biocompatibility of all used materials
- ☐ Cellulose acetate membrane for low protein binding
- ☐ Filtration range 100 ml to 10 L
- ☐ Individually wrapped, sterile
- ☐ Non-pyrogenic

Filtropur L 0.2 S with integral glass-fibre prefilter for use in connection with pressure pumps (e.g. membrane pumps) or peristaltic pumps (e.g. tube pumps)

Order Number	Inlet	Pore Size	Packaging Bag/Case
83.1827	Tube connector (6-12mm stepped connector)	0.2 µm	1/50



Filtropur L 0.2 LS with integral glass-fibre prefilter for use in connection with pressure pumps (e.g. membrane pumps) or peristaltic pumps (e.g. tube pumps)

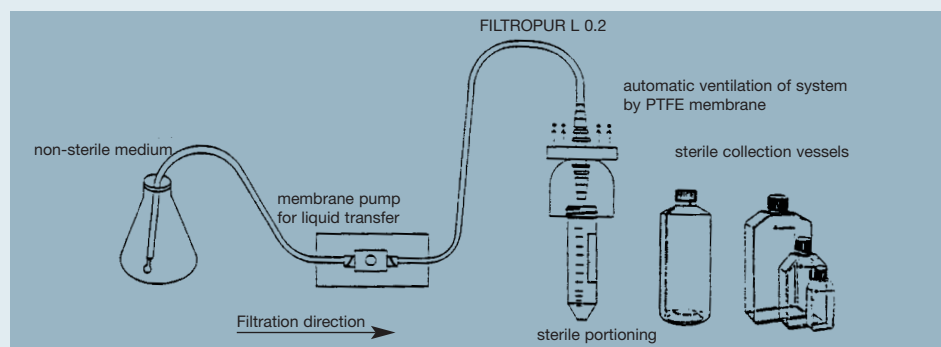
Order Number	Inlet	Pore Size	Packaging Bag/Case
83.1827.001	Luer-Lock	0.2 µm	1/50



Membrane pump with tube set, stainless steel sinker, tube adapter for Filtropur L 0.2 LS

Order Number	Packaging Pcs./Case	Set
83.1850	1	2.5 m silicon tube 5 multi-function adapter 1 stainless steel sinker

Pressure filtration with Filtropur L 0.2





TC tubes sterile TC quality, clear polystyrene

The pretreated polystyrene tubes with screw cap are especially suitable for:

- ☐ Culturing small cell populations
- ☐ Culturing suspension or monolayer cultures
- ☐ Storage or transport of cell material
- ☐ The screw cap enables an open or closed growth environment for cell culture

Order Number	Volume ml	Length/Ø mm	Description	Packaging
83.9923.945	15	125/16	round bottom	5/bag 1,000/case
83.9923.943	12	99/16	round bottom	
83.9923.929	10	97/16	conical with skirted base	

Centrifuge tubes, sterile, non-pyrogenic, with conical base, attached red screw cap, with graduations and writing space

- ☐ Clear PP enables perfect viewing of the sample material

Order Number	Volume ml	Length/Ø mm	Description	Packaging
62.559.001	50	114/28	with skirted base	25/bag 300/case
62.547.004	50	114/28	without skirted base	25/styrofoam rack 200/case
62.547.254	50	114/28	without skirted base	25/bag 250/case
62.554.002	15	120/17	without skirted base	50/styrofoam rack 500/case
62.554.502	15	120/17	without skirted base	50/bag 500/case

Rack for conical 50 ml tube (2 rows of 5 apertures each)
Order Number 93.1645

Tubes with ventilation cap, sterile, round base, neutral 2-position cap

- ☐ For open and closed incubation
- ☐ Centrifugable

Order Number	Volume ml	Length/Ø mm	Description	Packaging Bag/Case
55.526.006 PP 55.476.013 PS	5	75/12	without print	25/1,000
62.526.028 PP 62.476.028 PS	5	75/12	with printed graduations	ind. wrapped, sterile 1/500
62.515.006 PP	13	100/16	with printed graduations	25/500
62.515.028 PP	13	100/16	with printed graduations	ind. wrapped, sterile 1/400

PS = transparent polystyrene, PP = polypropylene

CryoPure Storage System

CryoPure - Certified Quality



CryoPure tubes are subjected to extensive testing to ensure that potential contaminants which could harm cell materials and cellular components during 'vital preservation' are not present.

Upon successfully meeting stringent testing criteria, CryoPure tubes are certified:



- **Non-pyrogenic**
- **Non-cytotoxic**
- **Non-mutagenic**
- **Sterile**
- **CE/IVD-compliant**

Exceptional Versatility



Available in a volume range of 1.2 to 5.0 ml, highly transparent CryoPure tubes are engineered with a safe, externally threaded screw cap to minimise contamination. For more compact storage in our 10 x 10 formatted cryo storage boxes, a 2.0 ml CryoPure tube with an internally threaded cap and silicone O-ring is available.

Colour-Coding Options



5 cap colours and 5 cap insert colours provide up to 25 different colour-coding options.

Ergonomic Design



QuickSeal screw caps ensure safe, ergonomic opening and closing with a single turn.



Skirted design allows for user-friendly single-handed operation of the tubes in the CryoRack 40 and most other racks.

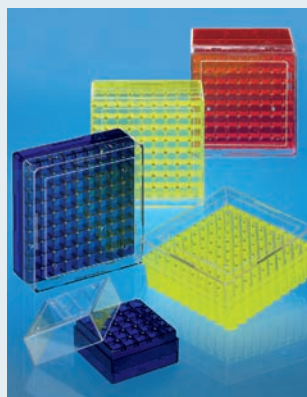
The optimised contour of the interior tube base enables easy removal of the complete sample.

CryoRack 40





Order Number 93.856.040 (1/bag, 10/case)

NEW

Cryo boxes for low temperature range storage



- High-quality durable polycarbonate storage boxes for a deep-freeze temperature range to -196°C
- Numerical coding at each aperture enables quick sample identification

Compatible tube designs		1.2 - 2.0 ml			3.5 - 5.0 ml
Format		5 x 5	9 x 9	10 x 10	9 x 9
Storage capacity		25	81	100	81
Box size (WxDxH) in mm		75 x 75 x 52	132 x 132 x 53	132 x 132 x 53	132 x 132 x 95
Ideal for tubes with	→	Internal and external thread		Internal thread	Internal and external thread
					
Packaging	Colour	Order Number			
5/bag 20/case	red	93.872.225	93.873.281	93.874.210	93.875.281
	yellow	93.872.425	93.873.481	93.874.410	93.875.481
	blue	93.872.625	93.873.681	93.874.610	93.875.681

CryoPure Storage System

NEW

CryoPure 1.2 ml tubes with external thread

Order Number	Screw Cap	Nominal Volume	Packaging		
72.377	white	1.0 ml	50/bag	500/inner box	2,000/case
72.377.002	red	1.0 ml	50/bag	500/inner box	2,000/case
72.377.004	yellow	1.0 ml	50/bag	500/inner box	2,000/case
72.377.005	green	1.0 ml	50/bag	500/inner box	2,000/case
72.377.007	violet	1.0 ml	50/bag	500/inner box	2,000/case
72.377.992	Colour Mix	1.0 ml	50/bag	500/inner box	2,000/case

NEW

CryoPure 2.0 ml tubes with external thread

Order Number	Screw Cap	Nominal Volume	Packaging		
72.379	white	1.8 ml	50/bag	500/inner box	2,000/case
72.379.002	red	1.8 ml	50/bag	500/inner box	2,000/case
72.379.004	yellow	1.8 ml	50/bag	500/inner box	2,000/case
72.379.005	green	1.8 ml	50/bag	500/inner box	2,000/case
72.379.007	violet	1.8 ml	50/bag	500/inner box	2,000/case
72.379.992	Colour Mix	1.8 ml	50/bag	500/inner box	2,000/case

NEW

CryoPure 5.0 ml tubes with external thread

Order Number	Screw Cap	Nominal Volume	Packaging		
72.383	white	4.5 ml	25/bag	250/inner box	1,000/case
72.383.002	red	4.5 ml	25/bag	250/inner box	1,000/case
72.383.004	yellow	4.5 ml	25/bag	250/inner box	1,000/case
72.383.005	green	4.5 ml	25/bag	250/inner box	1,000/case
72.383.007	violet	4.5 ml	25/bag	250/inner box	1,000/case
72.383.992	Colour Mix	4.5 ml	25/bag	250/inner box	1,000/case

NEW

CryoPure 2.0 ml tubes with internal thread and silicone O-ring

Order Number	Screw Cap	Nominal Volume	Packaging		
72.380	white	1.6 ml	50/bag	500/inner box	2,000/case
72.380.002	red	1.6 ml	50/bag	500/inner box	2,000/case
72.380.004	yellow	1.6 ml	50/bag	500/inner box	2,000/case
72.380.005	green	1.6 ml	50/bag	500/inner box	2,000/case
72.380.007	violet	1.6 ml	50/bag	500/inner box	2,000/case
72.380.992	Colour Mix	1.6 ml	50/bag	500/inner box	2,000/case

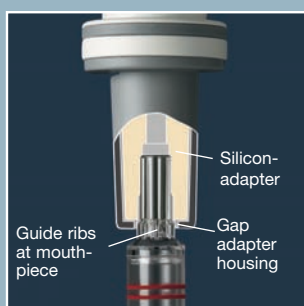
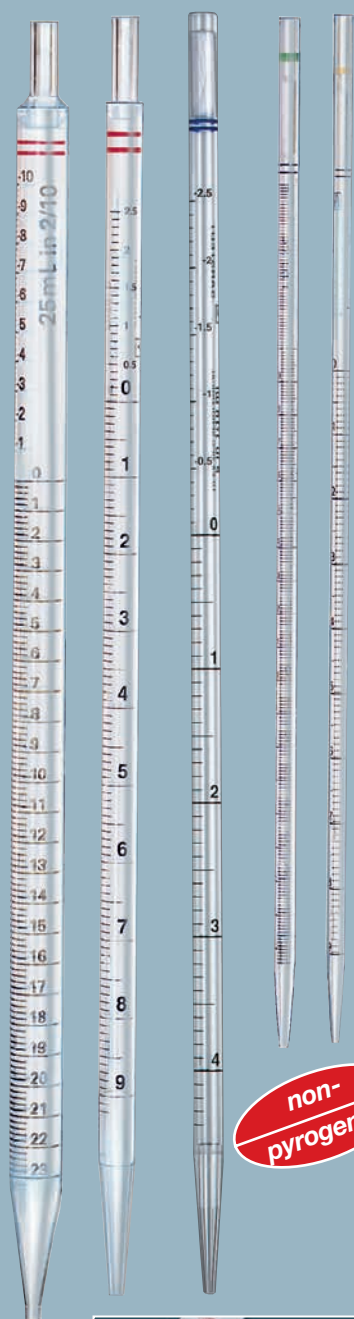
NEW

Colour-coded inserts for CryoPure tubes

Order Number	Colour	Packaging	
65.386	white	100/bag	3,000/case
65.386.002	red	100/bag	3,000/case
65.386.004	yellow	100/bag	3,000/case
65.386.005	green	100/bag	3,000/case
65.386.007	violet	100/bag	3,000/case
65.386.992	Colour Mix	100/bag	2,500/case

Note: Safety Instructions and User Guide refer to p. 164

Serological Pipettes



Serological pipettes from clear polystyrene

- ☐ Non-pyrogenic, individually wrapped, sterile
- ☐ Easy identification by international colour code
- ☐ Larger pipetting volume due to negative graduation
- ☐ Variable mode of handling due to reverse graduation
- ☐ Optimised mouthpieces for universal fit in most common pipettors
- ☐ Easy opening, static-free packaging

Serological Pipettes 1 ml, 2 ml, 5 ml, 10 ml, 25 ml, 50 ml

Order Number	Total Volume/Graduation	Description/Colour Code	Packaging Pcs./Case
86.1251.001*	1 ml / $\frac{1}{100}$ ml	plugged, ind. wrapped, sterile, yellow	1,000
86.1251.025	1 ml / $\frac{1}{100}$ ml	plugged, sterile, 25 pcs., yellow	1,000
86.1252.001*	2 ml / $\frac{1}{100}$ ml	plugged, ind. wrapped, sterile, green	1,000
86.1252.025	2 ml / $\frac{1}{100}$ ml	plugged, sterile, 25 pcs., green	1,000
86.1253.001*	5 ml / $\frac{1}{10}$ ml	plugged, ind. wrapped, sterile, blue	500
86.1253.025	5 ml / $\frac{1}{10}$ ml	plugged, sterile, 25 pcs., blue	500
86.1254.001*	10 ml / $\frac{1}{10}$ ml	plugged, ind. wrapped, sterile, orange	500
86.1254.025	10 ml / $\frac{1}{10}$ ml	plugged, sterile, 25 pcs., orange	500
86.1685.001*	25 ml / $\frac{2}{10}$ ml	plugged, ind. wrapped, sterile, red	200
86.1685.020	25 ml / $\frac{2}{10}$ ml	plugged, sterile, 20 pcs., red	200
86.1689.001*	50 ml / $\frac{1}{2}$ ml	plugged, ind. wrapped, sterile, violet	100

*non-pyrogenic

Aspiration Pipette, polystyrene

- ☐ For aspirating media with a vacuum pump
- ☐ Individually wrapped in paper/plastic peel packaging
- ☐ Certified non-pyrogenic
- ☐ Without graduation, without cotton plug

Order Number	Total Volume Graduation	Description	Packaging Pcs./Case
86.1252.011	2 ml/without graduation	without plug, without print, ind. wrapped, sterile	1,000

Easy size identification

by international colour code on individually wrapping

25 ml serological pipette in optimised design

Due to the size and weight of filled 25 ml pipettes, they are apt to have considerable range of movement in pipetting aid adapters. This undesirable motion makes the pipettes inconvenient to handle, impedes precise sampling and may even cause leaks at the pipette/adaptor connection (dripping).

- ☐ **Small guide ribs** at the mouthpiece provide an improved fit in the adapter housing of any pipette aid to minimise undesirable swaying motion.
- ☐ **Minimises the risk of dripping** by a secure grip of the pipette as soon as the small guide ribs contact the gap between mouthpiece and adapter housing.



Dilution pipette with and without tip

For dilutions for bacteriological tests, e.g. in food labs, plugged and sterile

Order Number	Total Volume/Graduation	Description	Packaging
86.1686.225	1.1 ml/0.5 - 1.0 - 1.1	without tip	25/bag 1,000/case
86.1686.025	1.1 ml/0.5 - 1.0 - 1.1	with tip	25/bag 1,000/case

5 and 10 ml pipettes without tip, e.g. suitable for homogenised media

Order Number	Total Volume/Graduation	Description	Packaging Pcs./Case
86.1687.010	5 ml / 1/10 ml	plugged, sterile 10/bag	500
86.1688.010	10 ml / 1/10 ml	plugged, sterile 10/bag	500



Automatic-Sarpette®

- ☐ New ergonomic design
- ☐ Even lighter for labour saving operation
- ☐ Environmentally friendly nickel metal hydride battery
- ☐ Three independant aspiration and dispensing speeds

Order Number: 90.189.100
with recharger and stand

Replacement membrane filter for Automatic-Sarpette®

Order Number: 92.189.120 (5 pcs.)

M-Sarpette®

- ☐ Operates without wires or batteries
- ☐ Distinctly lighter in weight than automatic pipettors
- ☐ Special valve system enables safe and precise pipetting
- ☐ Integral hydrophobic filter functions as fluid barrier
- ☐ Compatible with pipettes of 1 to 100 ml volume

Order Number: 90.1427

Replacement membrane filter for M-Sarpette®

Order Number: 92.1417.001 (5 pcs.)

Replacement silicon adapter

Order Number: 92.1417.002

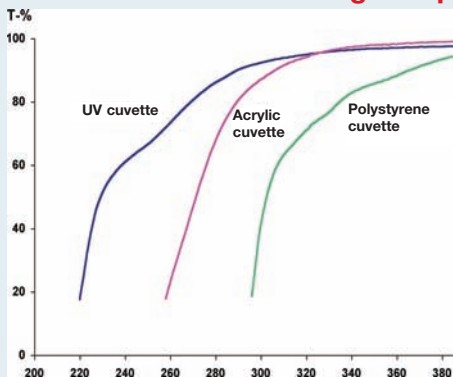
Standard Cuvettes

Since the seventies, Sarstedt has been renowned as a supplier of high-quality plastic disposable cuvettes made from polystyrene (PS) and acrylic (PMMA). With a view to serving the UV range down to 220 nm which is gaining more and more importance, our product range has been complemented by a new UV transparent disposable cuvette (see on p. 107).

Due to its optical characteristics, **polystyrene** is ideal for use in the visual range and the UV transparent range down to **330 nm**. At 334 nm, for instance, polystyrene has a spectral transmission ratio of about 70 to 80 %.

Acrylic cuvettes, on the other hand, stand out for their enhanced light transmission in the UV range and can be used down to approximately **300 nm**. Their spectral transmission ratio at 334 nm, for instance, is between 80 to 90%.

Transmission is wave length dependent



Typical values for polystyrene, acrylic and UV cuvettes

Wavelength in nm	Transmission in %		
	UV cuvette	Acrylic cuvette	Polystyrene cuvette
260	73	23	0
280	86	68	0
313	94	93	66
334	96	97	79
366	97	98	90
405	98	99	95
560	98	99	96

Method: measured with distilled water against air, optical path length 10 mm.



Semi-micro cuvette 10 x 4 mm, optical pathway 10 mm, 1.6 ml

Order Number	Length mm	Material	Packaging	Pcs./Case
67.742	45	Polystyrene	100/rack by mold cavity number	2,000
67.746	45	Polystyrene	packed loose in bags of 500	2,000
67.740	45	Acrylic	100/rack by mold cavity number	2,000



Cuvette 10 x 10 mm, optical pathway 10 mm, 4 ml

Order Number	Length mm	Material	Packaging	Pcs./Case
67.741	45	Polystyrene	100/rack by mold cavity number	2,000
67.745	45	Polystyrene	packed loose in bags of 500	2,000
67.738	45	Acrylic	100/rack by mold cavity number	2,000



For fluorescence measurements, 4 optical sides, 4 ml

Order Number	Length mm	Material	Packaging	Pcs./Case
67.754	45	Polystyrene	100/rack by mold cavity number	2,000
67.755	45	Acrylic	100/rack by mold cavity number	2,000

PS = polystyrene, transparent, PMMA = polymethylmethacrylate

UV Micro Cuvette, special cuvettes



UV Micro Cuvette

For measurements in the short-wave UV range below 300 nm, the material-related self-absorptive characteristics of PS and PMMA cuvettes increase distinctly as their transmission ratio decreases.

UV transparent cuvettes are specially suited for the photometric analysis of **nucleic acids** and **proteins** and can be used as an alternative to fragile and expensive glass or quartz cuvettes. UV cuvettes enable measurements in the visual and UV range **down to 220 nm**.

UV micro cuvette, 120 µl minimum sample volume, 8.5 mm light center height, 10 mm optical path length, of precise optical quality

- ☐ Suitable for photometers of 8.5 mm light center height: Eppendorf Biophotometer, ThermoSpectronic, Perkin Elmer, Bio-Rad, Analytic Jena etc.
- ☐ Photometric analysis of nucleic acids at 260 nm and proteins at 280 nm
- ☐ Scratchproof packaging in Styrofoam containers
- ☐ Certified UV cuvettes (DNA-/RNase-/protein-free) individually sealed with caps optionally available for safe sample storage and prevention of contamination
- ☐ Dimensions (W x D x H): 12.5 x 12.5 x 45 mm

UV micro cuvette

Order Number	Length mm	Packaging
67.758	45	100 pcs. Styrofoam racks, 400/case
67.758.001	45	100 pcs. with sealed lid/Styrofoam rack 400/box, certified DNA-/RNase-/protein-free

Special cuvettes with round opening

Cuvette 10 x 10 mm with round opening, optical pathway 10 mm

Order Number	Length mm	Material	Packaging	Pcs./Case
67.743	96	Polystyrene	100/rack by mold cavity number	1,000
67.749	55	Polystyrene	100/rack by mold cavity number	2,000

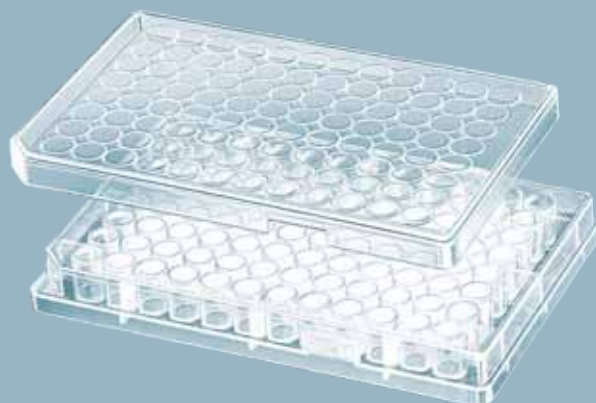
Push caps for cuvettes with round opening

Order Number	Compatible Cuvette	Packaging Pcs./Case
65.793	Order Number: 67.749	5,000
65.803	Order Number: 67.743	5,000

Round cuvettes for LKB Analyser, PP, for sample preparation

Order Number	Length/Ø mm	Material	Packaging	Pcs./Case	Description
68.752	51/12	Polypropylene	loose in bags of 1,000 pcs. each	5,000	for sample preparation

Microtest Plates



Microtest plates from high-quality clear polystyrene

- ☐ Compatible with all common dispensers, readers and washers
- ☐ Excellent optical quality
- ☐ Uniform surfaces
- ☐ Alpha numeric coordinates
- ☐ Available with □, U and V shaped wells
- ☐ Can be used as micro modification, e.g. with: geometric dilution series, blood group serology, haemagglutination tests, haemagglutination inhibition tests, antibody diagnostic tests, antistheptolysin-O-titre determination, complement binding reactions

Microtest plates, PS, with 96 wells

Order Number	Shape of Wells	Description	Packaging
82.1581	□	without lid	25/bag 100/Case
82.1581.001	□	with lid, sterile	1/bag 50/Case
82.1582	U	without lid	25/bag 100/case
82.1582.001	U	with lid, sterile	1/bag 50/case
82.1583	V	without lid	25/bag 100/case
82.1583.001	V	with lid, sterile	1/bag 50/case

Lid for microtest plates, PS

Order Number	Packaging
82.1584	25/bag, 100/case

Adhesive film for microtest plates

Acetate foil (impermeable to air)

Order Number	Packaging
82.1586	100/case

Terasaki microtest plates

60 Well plates, 10 µl (tissue culture treated)

- ☐ For HLA tests
- ☐ For use with micro volumes for clinical and genetic investigations

10 Plates with lid/pack, gamma-sterile

Order Number	Packaging
83.9923.972	490/case

PS = polystyrene

MegaBlock®, Adhesive Sealing Tapes



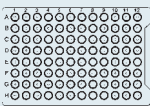
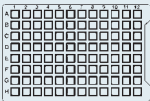
MegaBlock® 96 Well 1.2 / 2.2 ml

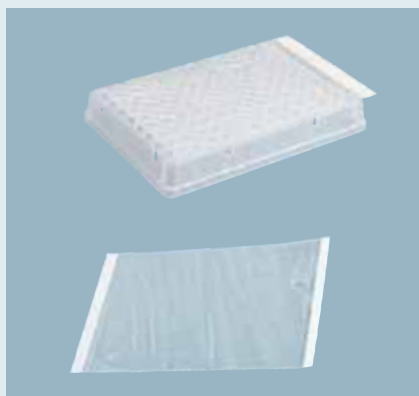
- ☐ Each well 100% leakproof tested
- ☐ Ideally suited for long-term sample storage
- ☐ Solvent resistant to DMSO (only Polypropylene Block)
- ☐ Square wells with round bottoms and alphanumeric coordinates for sample identification
- ☐ Manufactured under clean room conditions



Order Number	Description	Volume/ Material	Packaging
82.1970.002	round wells	1.2 ml PS transparent	32 pcs./case
82.1971.002	round wells	1.2 ml PP (autoclavable)*	32 pcs./case
82.1972.002	square wells	2.2 ml PP (autoclavable)*	32 pcs./case

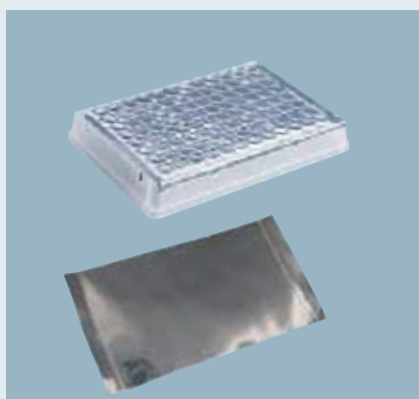
Mat covers for MegaBlock®

95.1990.002		Mat cover for 1.2 ml MegaBlock®, pierceable	250 pcs./case 50 pcs./inner case 10 pcs./bag
95.1991.002		Mat cover for 2.2 ml MegaBlock®	250 pcs./case 50 pcs./inner case 10 pcs./bag



Adhesive Sealing Tapes for Bioanalytical Applications

- ☐ Reliable sealing for polypropylene, polystyrene and polycarbonate plates
- ☐ High temperature tolerances to 110°C for use in PCR
- ☐ Optically transparent for real-time PCR
- ☐ Ideally suited for the safe compound storage to -70° C
- ☐ Effective sealing of highly hygroscopic solutions (e.g. DMSO)
- ☐ Excellent resistance against organic solutions like DMSO, Acetonitril and Methanol
- ☐ Detection level of adhesive residues < 5 µg/ml, Test Solvent DMSO
- ☐ Recommendation for application see p. 74



Tapes for Genomic, HTS, compound storage

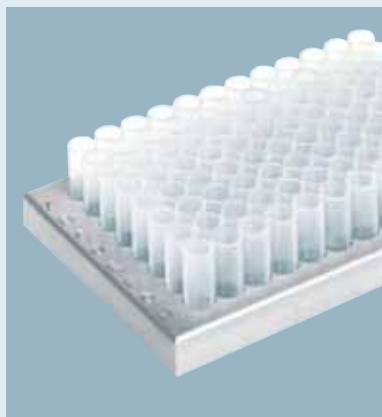
Order Number	Description	Tape material	Packaging
95.1994	transparent	polyolefin	100 tapes/inner case
95.1995	non-transparent	aluminium	100 tapes/inner case

Tapes for standard applications (ELISA-plates, sample storage -40°C to 100°C)

82.1586	transparent	acetate	100 tapes/inner case
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* important notes on autoclaving: see p. 163

Sample Vials



For the performance of Radio-Immuno-Assay

- ☐ Effective centrifugation of 4 x 96 or 6 x 96 vials using microtest plate adapter
- ☐ Firm adherence of sediment during second antibody separation
- ☐ Suitable for alternative separation techniques, for example the magnetic separation of iron oxide coupled antibodies
- ☐ The shape is compatible with most common Gamma counters
- ☐ Minimal waste volume – economical disposal

Order Number	Vial/Accessories	Packaging Pcs./Case
73.1055	Special vial for RIA highly transparent polypropylene	10,000
65.1375	Push cap for 73.1055 vial	10,000

Disposable sample cup for Immunoassay analysers ES 600 and ES 300 Disposable cup for serum sample, from clear polystyrene

Order Number	Volume ml	Length/Ø mm	Packaging Pcs./Case	Compatible Cap
73.663	2.0	40/12	5,000	65.108

Mini vials with safety cap

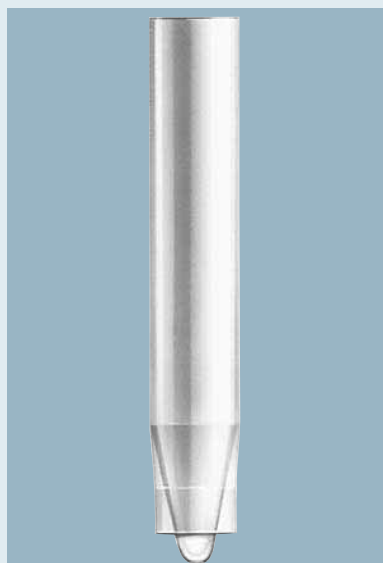
6 ml Mini vial with standard cap

Order Number Material	Length mm	Ø mm	Description	Packaging Pcs./Case
73.680 HD-PE	56	15	with enclosed screw cap	2,000

20 ml Scintillation vial

Order Number Material	Length mm	Ø mm	Description	Packaging Pcs./Case
73.662.500 HD-PE	58	27	with enclosed screw cap	500

Sample Vials / Autoanalyser Cups



Conical tube for Pharmacia/LKB Gamma Counter and Gamma Counter Cobra of Packard

- ☐ With conical base for optimal sediment recovery
- ☐ Transparent polypropylene
- ☐ Suitable for all rack and instrument types, old and new

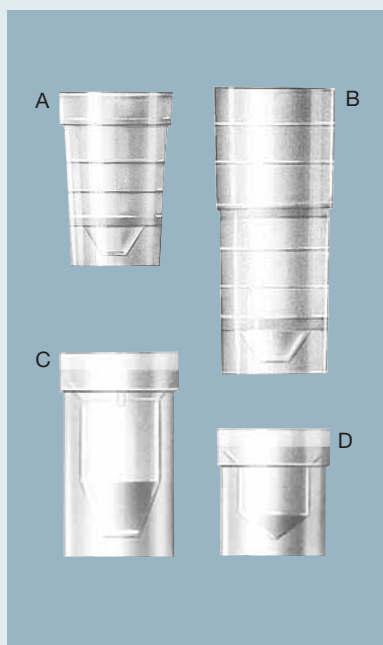
Compatible with the following Pharmacia/LKB instruments:

1270 – Rackgamma	(rack type 1270-132)	1277 – Gammamaster	(rack type 1277-150)
1271 – Riagamma	(rack type 1270-132)	1260 – Multigamma	(no racks)
1272 – Clinigamma	(rack type 1270-142)	1261 – Multigamma	(no racks)
1275 – Minigamma	(rack type 1270-132)	1282 – Compugamma	(rack type 1282-131)

Order Number Material	Volume ml	Length/Ø mm	Packaging Pcs./Case	Compatible Caps*
57.477.500 PP	4.5	75/12	4,000	65.809 65.719

*Caps are shown on page 58

HD-PE = High Density polyethylene, PP = polypropylene



Autoanalyser cups

Order Number Material	Volume ml	Colour	Type	Packaging Pcs./Case
73.641 PS	1.5	neutral	A	5,000
73.641.010 LD-PE	1.5	for AAS	A	5,000
73.646 PS	3.5	neutral	B	5,000
73.644 PS	0.5	neutral	C	5,000
73.640 PS	0.3	neutral	D	5,000



Caps for autoanalyser cups

Order Number Material	Description	Colour	Packaging Pcs./Case
65.649 LD-PE	closed cap	neutral	10,000
65.651 LD-PE	evaporation cap	neutral	5,000

Sample Cups



Sample cup for Hitachi analysers

Order Number Material	Volume ml	Colour	Length/Ø mm	Packaging Pcs./Case	Compatible Cap
73.666 PS	2.0	neutral	38/17	5,000	65.718

Sample cup for Abbott analyser AXSYM

Order Number Material	Volume ml	Colour	Length/Ø mm	Packaging Pcs./Case	Compatible Cap
73.667 PS	2.5	neutral	53/12	2,500	-

PS = polystyrene, transparent, LD-PE = Low Density polyethylene



Sample cup for Coulter Counter with enclosed cap

Order Number	Packaging
73.650.500	250/bag 500/case



Sample cups for Cobas systems Bio, Mira, Fara and Integra*

Order Number Material	Volume ml	Colour	Length/Ø mm	Packaging Pcs./Case	Cap
73.910 PP	0.6	blue	34/8.2	5,000	attached
73.910.001 PP	0.6	red	34/8.2	5,000	attached
73.910.002 PP	0.6	green	34/8.2	5,000	attached
73.910.003 PP	0.6	yellow	34/8.2	5,000	attached
73.910.004 PP	0.6	white	34/8.2	5,000	attached
73.911 * PP	0.6	blue	34/8.2	5,000	attached with bore

* cap with hole to take up Integra probe



Cuvettes and steel balls for Amelung KC coagulometer (macro)

Order Number	Description	Packaging Pcs./Case
73.834	2 bags each with 1,000 cuvettes and 2 dispenser bottles each with 1,000 steel balls	2.000

PP = polypropylene

Disposable Containers

with snap-on lid



250 ml Container, polystyrene, white

Order Number	Length mm	Aperture-Ø mm	Packaging Pcs./Case
75.560	100	73	500

Lid for 250 ml container

Order Number: 76.561

Packaging: 500/case



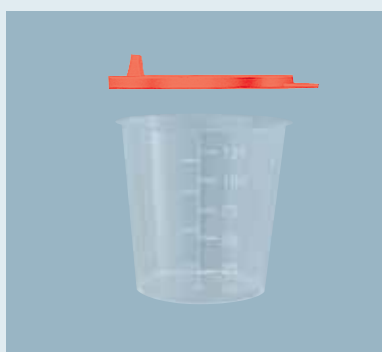
125 ml Container, polypropylene, neutral

Order Number	Length mm	Aperture-Ø mm	Packaging Pcs./Case
75.565	85	62	500

Lid for 125 ml container

Order Number: 76.566

Packaging: 2,000/case

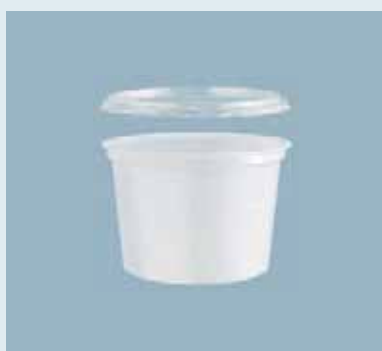


125 ml Container, polypropylene, highly transparent

Order Number	Length mm	Aperture-Ø mm	Packaging
75.1355	67	66	1,000
75.1355.100	67	66	100/bag/1,000/case

Snap-on lid for 125 ml container, polyethylene, red

Order Number	Description	Pcs./Bag	Packaging Pcs./Case
76.1477	with spout	1,000	1,000
76.1477.100	with spout	100	1,000
76.1414	without spout	1,000	1,000
76.1414.100	without spout	100	1,000



100 ml Container, polystyrene, white

Order Number	Length mm	Aperture-Ø mm	Packaging Pcs./Case
75.570	49	70	1,000

Snap-on lid for 100 ml container

Order Number: 76.571

Packaging: 1,000/case



30 ml Medicine cup with graduation, polypropylene

Order Number	Length/Aperture-Ø mm	Colour	Packaging
75.1337.500	41/37	neutral	3,750 each case (75 per sleeve)
75.1337.502	41/37	red	
75.1337.504	41/37	yellow	
75.1337.505	41/37	green	
75.1337.506	41/37	blue	

Snap-on lid for 30 ml medicine cup, polyethylene, white

Order Number: 76.1340.500 3,750/case

Order Number: 76.1340.560 75/sleeve, 3,750/case

PE = polyethylene · PP = polypropylene · PS = polystyrene

Disposable Containers with Screw Cap



100 ml container, neutral polypropylene, screw cap from neutral HD-PE

Order Number	Length/Ø mm	Description	Packaging
75.563	72/62	separate container without lid	50/bag, 500/case
76.564	14/76	separate lid	50/bag, 500/case
75.562.105	73/62	container with lid, assembled, sterile, with safety label	5/bag, 200/case
75.562.005	73/62	container with lid, assembled	5/bag, 200/case
75.562.300	72/62	container with enclosed lid	50/bag, 300/case

Safety label ensures sterility prior to use and provides a convenient writing space.
100 ml Container, brown, see p. 39



Container with assembled screw cap from HD-PE/PP

☐ Highly transparent containers with reliable sealing caps

Order Number	Volume ml	Length/Ø mm	Description	Packaging Pcs./Case
75.9922.744 PP	70	55/44	yellow cap, HD-PE	500
75.9922.745 PP	70	55/44	yellow cap, HD-PE, with label	500
75.9922.721 PP	70	55/44	yellow cap, HD-PE, with label, sterile, ind. wrapped	100
75.9922.410 PC	120	105/44	neutral cap, PP, without graduation	250
75.9922.421 PP	120	105/44	neutral cap, HD-PE, graduation up to 120 ml	250
75.9922.420 PP	120	105/44	yellow cap, HD-PE, sterile, graduation up to 120 ml	250
75.9922.519 PC	250	78/70	neutral cap, PP, graduation up to 200 ml	180
75.9922.532 PP	250	78/70	neutral cap, HD-PE, graduation up to 200 ml	180
75.9922.534 PP	250	78/70	yellow cap, HD-PE, sterile, graduation up to 200 ml	180
75.9922.811 PC	500	150/70	neutral cap, PP, graduation up to 420 ml	90
75.9922.812 PP	500	150/70	neutral cap, HD-PE, graduation up to 420 ml	90
75.9922.813 PP	500	150/70	yellow cap, HD-PE, sterile, graduation up to 420 ml	90

Ventilation screw cap PP neutral, for 250 ml and 500 ml PC containers

Order Number: 65.9923.355 90 pcs./case

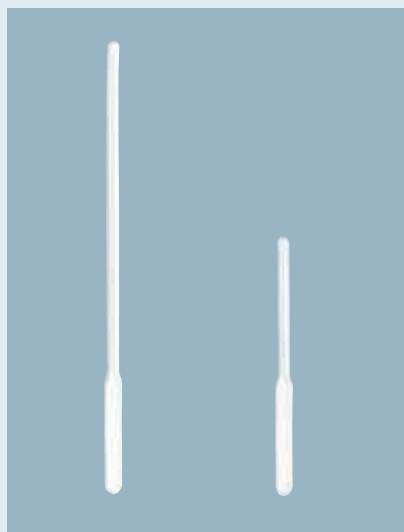
40, 60 and 120 ml autoclavable disposable containers with screw cap

☐ Containers (highly-transparent) and cap from PP, autoclavable* at 121°C (important notes on autoclaving: see p. 163).

Order Number	Volume ml	Length/Ø mm	Description	Packaging Pcs./Case
62.555 with graduations	40	85/28.5	enclosed cap	500
62.555.001 with graduations	40	85/28.5	assembled cap, sterile	450
60.596	60	126/28.5	enclosed cap	250
60.596.001	60	126/28.5	assembled cap, sterile	250
60.597	120	114/42	enclosed cap	250
60.597.001	120	114/42	assembled cap, sterile	100

* Caps must not be screwed on tightly during autoclaving

Stirring Rods, Pens, Weigh Trays



Stirring rods

- ☐ Numerous applications, e.g. for mixing of samples and solutions, for detaching of blood clots from tube walls
- ☐ The short rod is particularly suitable for mixing in cuvettes

Order Number Material	Length mm	Packaging
81.970 PP	120	500/bag 10,000/case
81.971 HD-PE	64	1,000/bag 10,000/case

Dispenser box

for 120 mm stirring rods

Each case contains one practical dispenser box holding 500 stirring rods



Permanent Lumocolor felt pen

for plastic tubes

- ☐ Fine tip
- ☐ Smear- and water-proof
- ☐ Fast drying

Order Number	Colour	Packaging
95.953	blue	10 pens to a box (same colour only)
95.954	black	
95.955	green	
95.956	red	



NEW

Weigh Trays

- ☐ Square, light weigh trays for easy weighing
- ☐ Suitable for liquid, solid or substances in powder form
- ☐ Rounded corners for easy emptying

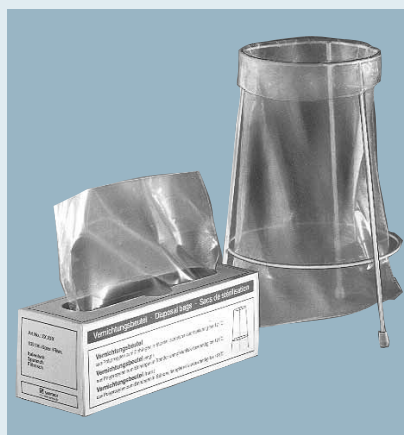
Order Number Material	Dimensions mm	Volume ml	Packaging Pcs./Case
71.9923.211 PVC	35 x 35	5	2,000
71.9923.212 PVC	72 x 72	70	2,000
71.9923.210 PS	128 x 128	250	1,000

PP = polypropylene, PS = polystyrene, HD-PE = polyethylene High Density, PVC = polyvinylchloride

Disposal Bags



Print



Suitable for autoclaving

- ☐ For destruction of infected laboratory products like tubes, S-Monovettes, petri dishes etc.
- ☐ Reduction of waste volume
- ☐ Suitable for autoclaving at 121°C⁽¹⁾ to approximately 134°C⁽²⁾

Disposal bags from polypropylene

Order Number	Dimensions mm	Bag colour		Bag print		Print colour		Packaging Pcs./case
		neutral	yellow	yes	no	red	blue	
86.1197*	200 x 300 ⁽¹⁾	•			•			1,000
86.1198	300 x 500 ⁽²⁾	•			•			500
86.1201	300 x 500 ⁽¹⁾	•		•		•		500
86.1201.001	300 x 500 ⁽¹⁾	•		•			•	500
86.1201.103	300 x 500 ⁽²⁾		•	•			•	500
86.1199	400 x 780 ⁽²⁾	•			•			250
86.1202	400 x 780 ⁽¹⁾	•		•		•		250
86.1202.001	400 x 780 ⁽²⁾	•		•			•	250
86.1202.103	400 x 780 ⁽²⁾		•	•			•	250
86.1200	600 x 780 ⁽²⁾	•			•			250
86.1203	600 x 780 ⁽¹⁾	•		•		•		250
86.1203.001	600 x 780 ⁽¹⁾	•		•			•	250
86.1203.103	600 x 780 ⁽²⁾		•	•			•	250
86.1204	700 x 1120 ⁽²⁾	•			•			150
86.1206	700 x 1120 ⁽²⁾	•		•		•		150
86.1206.103	700 x 1120 ⁽²⁾		•	•			•	150

*Disposal bags for table rack in convenient dispenser box (100 box)

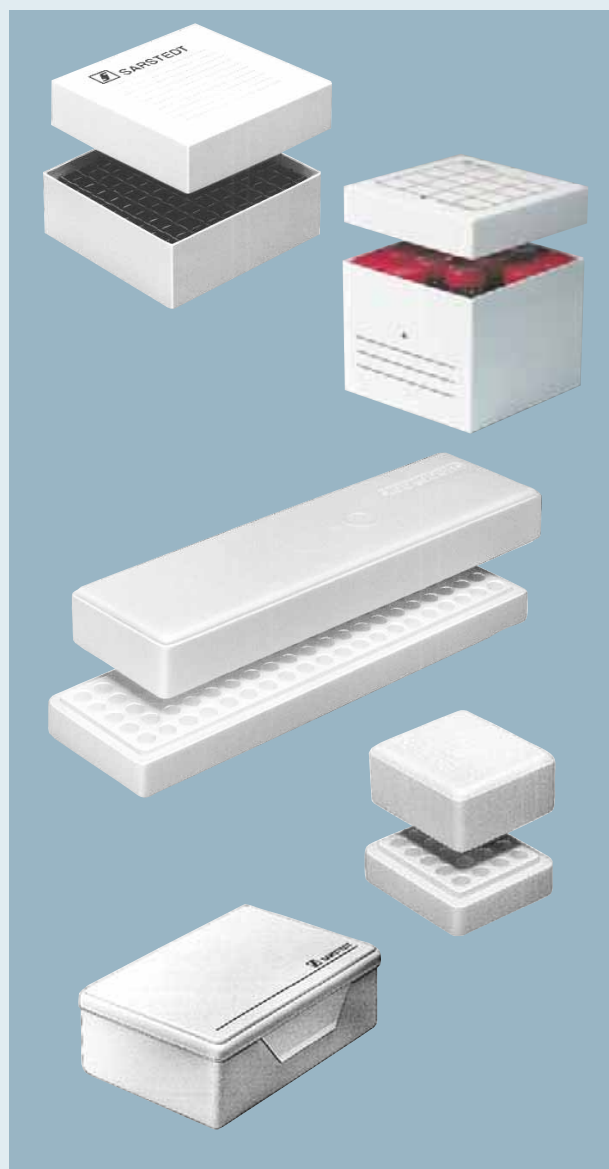
Table rack for disposal bags

Steel rack coated with epoxy resin

Order Number: 95.1297

1 rack including dispenser box with bags (Order No. 86.1197)

Storage and Assortment Boxes



Storage boxes for space-saving sample storage

Suitable for Sarstedt micro tubes, PCR-tubes and centrifuge tubes

- ☐ Space-saving and organised sample storage
- ☐ Safe and light-protected storage

Storage boxes from moisture-resistant laminated cardboard material with lid and insert

Order Number	Size mm	Capacity/Format
95.64.997	135 x 135 x 45 for 1.5 and 2 ml tubes	100 / 10 x 10
95.64.981	135 x 135 x 45 for 1.5 and 2 ml tubes	81 / 9 x 9
95.64.982*	135 x 135 x 56 (high version)	81 / 9 x 9
95.64.916	148 x 148 x 118 for 50 ml tubes	16 / 4 x 4
95.64.924	135 x 135 x 28 for 0.2 ml tubes	144 / 12 x 12
95.64.923	135 x 135 x 34 for 0.5 ml tubes	100 / 10 x 10
95.64.922	152 x 152 x 130 for 15 ml tubes	49 / 7 x 7

Minimum quantity: 10 pieces

* Order no. 95.64.982 is suitable for taller containers, e.g. tube 66 x 11.5 mm, order no. 60.549 (page 51)

Styrofoam container with lid

Order Number	Size mm	Capacity/Format
95.64.253	85 x 100 x 65	20 / 5 x 4
95.64.249	100 x 340 x 65	100 / 5 x 20

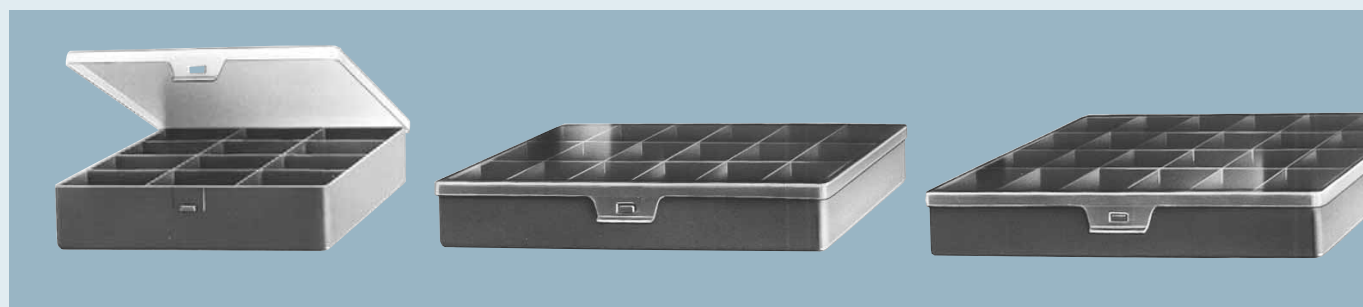
Minimum quantity: 10 pieces

Dispenser box for tips, reagent cups etc.

from impact-resistant white plastic

Order Number	Size mm	Capacity
95.66.259	260 x 170 x 80	for loose items

Assortment boxes from high quality, impact-resistant plastic, green base, transparent lid



Order Number: 95.957
12 compartments
 Outer dimensions: 23 x 23 x 5 cm

Order Number: 95.958
18 compartments
 Outer dimensions: 23 x 33.5 x 5 cm

Order Number: 95.959
24 compartments
 Outer dimensions: 31 x 33.5 x 5 cm

Round Mailing Containers

The safe and practical mailing container for diagnostic specimens

The mailing containers are suited for transport of diagnostic samples. Leakproof at a pressure difference of 0.95 bar they are optimal for use as secondary containers in compliance with the P 650 Packaging Instruction. The mailing container and screw cap are made from environmentally neutral polypropylene and are autoclavable up to 121°C (important notes on autoclaving: see p. 163). Customer-specific, non-abrasive print is available on request (minimum quantity: 5,000 pcs.). The mailing containers are supplied with and without absorbent liner. Absorbent liners can be ordered separately.

As provided in the P 650 Packaging Instructions, the space between the primary receptacle and the second container must always contain absorbent material.

The Ø 30 mm containers fit all common letter boxes with a 35 mm slot.

Important:

Containers and screw caps must be ordered separately! Container 114 x Ø 44 mm is suitable for mailing common culture medium carriers (e.g. Uricult system). Container 126 x Ø 30 mm with special cap no. 65.731 is for mailing Port-A-Cul tubes.



Mailing container 126 x Ø 30 mm

Order Number	Description	Packaging Pcs./Case
78.896	without absorbent liner	250
78.898	with absorbent liner	250

Standard screw cap for mailing container 126 x Ø 30 mm

Order Number	Colour	Packaging Pcs./Case
65.679	neutral	250
65.679.001	brown	250
65.679.002	red	250
65.679.004	yellow	250
65.679.006	blue	250

Special screw cap for mailing container 126 x Ø 30 mm for Port-A-Cul tube

Order Number	Colour	Packaging Pcs./Case
65.731	neutral	250



Mailing container 85 x Ø 30 mm

Order Number	Description	Packaging Pcs./Case
78.890	without absorbent liner	500
78.892	with absorbent liner	500

Screw cap for mailing container 85 x Ø 30 mm

Order Number	Colour	Packaging Pcs./Case
65.676	neutral	500
65.676.001	brown	500

Separate absorbent liner

Order Number	For Container	Packaging Pcs./Case
78.670	126 x Ø 30 mm	4,000
78.684	85 x Ø 30 mm	2,000

Round Mailing Containers



Mailing Container 114 x Ø 44 mm

Order Number	Description	Packaging Pcs./Case
78.895	without absorbent liner	250
78.897	with absorbent liner	250

Screw cap for mailing container 114 x Ø 44 mm

Order Number	Colour	Packaging Pcs./Case
65.678	neutral	250

Separate absorbent liner

Order Number	For Container	Packaging Pcs./Case
78.669	114 x Ø 44 mm	1,000

Mailing containers - Examples of suitable sample tubes

For sample tubes Ø 16.5 and Ø 25 mm the screw cap can also be used as a support base.

S-Monovette®
Ø 16, Ø 15, Ø 13,
Ø 11
on pp. 14 - 15

Container
126 x Ø 30 mm

Tubes
Ø 16.5 mm
on pp. 48/52

Conical Tubes
Ø 17 mm
on p. 50

Faeces and sputum tubes
Ø 20 mm
on pp. 39-40

Container
85 x Ø 30 mm

Tubes 8 ml
Ø 16.5 mm
on p. 52

Faeces and sputum tubes
Ø 25 mm
on pp. 39-40

Container
114 x Ø 44 mm

Tubes 30 ml
Ø 25 mm
on p. 51

Suitable Boxes and mailing envelopes see pages 121-123.

Square Mailing Containers



For safe postage and transportation of clinical samples

Sarstedt mailing containers have proved to be safe for blood, urine, swab and faeces sample tubes.

A tight screw cap ensures safe and easy opening and closing of each container. The square design allows the products to be packed easily without wasting space. Container and cap from HD-PE neutral.

Containers are also available with absorbent liner.

One side of each container can be printed to customer requirements. Minimum order quantity: 5,000.

Mailing container 114 x 28 mm with screw cap e.g. suitable for 30 ml reagent and faeces tube 107 x Ø 25 mm

Order Number	Inner Length mm	Aperture-Ø mm	Type	Packaging Pcs./Case
78.572	114	28	without absorbent liner	250
78.573	114	28	with absorbent liner	250

Standard mailing container 118 x 23 mm with screw cap e.g. suitable for S-Monovettes and sample tubes 101 x Ø 16.5 mm

Order Number	Inner Length mm	Aperture-Ø mm	Type	Packaging Pcs./Case
78.585	118	23	without absorbent liner	500
78.587	118	23	with absorbent liner	500

NEW

Mailing container 176 x 28 mm with screw cap, e.g. suitable for transport swab, 30 ml reagent and faeces tube 107 x Ø 25 mm

Order Number	Inner Length mm	Aperture-Ø mm	Type	Packaging Pcs./Case
78.574	176	28	without absorbent liner	250
78.574.500	176	28	with absorbent liner	250

HD-PE = High Density polyethylene

Inner length: Maximum length of sample container

Aperture-Ø: Maximum diameter of sample container

Mailing Envelopes

PE Mailing envelopes

- ☐ Made from blue, resistant PE foil
- ☐ Self-adhesive labels with individual customer print, minimum quantity: 15,000 pcs.
- ☐ Detachable labels for multiple applications
- ☐ Available in two sizes

Order Number	Dimensions/Description	Packaging Pcs./Case
95.1410	310 x 180 mm 2 rows, 3 perforations	1,000
95.1411	310 x 123 mm 1 row, 3 perforations	1,000

Self-adhesive labels 145 x 98.5 mm with customer print are available on request.

Mailing envelopes from sulphate paper for postage

Description:

With support base, lateral fold, grooved twice, 3-fold perforation.

Print:

Standard print with »Aesculapius« symbol or „Exempt Human Specimen“ also available with special print at additional cost, minimum quantity: 5,000 pcs.

Order Number	Dimensions	Print	Packaging Pcs./Case
95.103	245 x 100 x 40 mm	Aesculapius Symbol	250
95.103.500	245 x 100 x 40 mm	Exempt Human Specimen	250
95.105	285 x 120 x 50 mm	Aesculapius Symbol	250
95.105.500	285 x 120 x 50 mm	Exempt Human Specimen	250

PE Mailing envelope

- ☐ Made from robust polyethylene foil
- ☐ Convenient separation of samples and request forms
- ☐ Especially suitable for transportation of samples via pneumatic dispatch systems

2 Compartments for sample tubes; the compartments are closed by adhesive tape that is reversible and suitable for multiple use.

Order Number	Packaging Pcs./Case
86.974	300

Transport Case for Diagnostic Specimens



Transport Case for diagnostic specimens via courier

The transport system Transport Case for courier services enables the safe transport of diagnostic specimens of Class UN 3373. The system fully conforms to the P 650 packaging regulations of ADR and has been tested and approved/passes by the Federal Institute for Material Research and Testing (BAM) in Berlin, Germany.

- ☐ Choose either wide aperture container or plastic bag closed with closure clip
- ☐ Superabsorber pack requires minimal space and offers optimal liquid absorption
- ☐ Outer packaging with highly effective insulating foam

Order Number	Description	Packaging Pcs./Case
95.1715	Transport case T 15, secondary container: wide aperture container incl. superabsorber pack	1
95.1717	Transport case B 17, secondary container: plastic bag with clip, incl. superabsorber pack	1
95.1717.011	Transport case B 13, low height option for 1 layer of block racks, otherwise identical to B 17	1
95.1717.003	Transport case B 19, without lateral rim, otherwise identical to B 17	1
95.1712	Superabsorber pack, capacity abt. 1.2 l	25
95.1713	Bag 270 x 270 x 600 x 0.1 mm	25
95.1714	Clip, large, 220 mm	25
95.1725	Insulating bag (without storage packs) for standard cool storage packs	12



NEW

Transport case for in-house sample transport

For easy and safe in-house sample transport in hospitals or laboratories

- ☐ Hardshell case made from durable ABS
- ☐ Available in different versions designed to accommodate either 50 or 100 S-Monovettes, tubes, transport swabs
- ☐ Large case with detachable insert for easy handling and disinfection

Order Number	Description	Dimensions
95.1720	Transport case for in-house sample transport, lid and base in light grey, detachable insert for 2 block racks	320 x 230 x 190 mm
95.1720.011	Transport case for in-house sample transport, lid transparent, base in light grey, accommodates 1 block rack	270 x 170 x 215 mm



Mailing Box for the safe transport of diagnostic specimens

- ☐ Approved by Deutsche Post AG, meets P650 IATA/ADR packaging regulations
- ☐ Suited for variable use with all Sarstedt mailing containers and bottles on pp. 118 to 120
- ☐ Integral restraint or attached foam bag for optimal fixation or cushioning of secondary containers
- ☐ Customized print on request (minimum quantity: 10,000 pcs.)

Order Number	Description/Size	Packaging
95.900	Suited for 1 to 4 mailing containers up to ø 30 mm; Restraint 198 x 107 x 38 mm	50 pcs./case (not assembled)
95.901	Suited for 1 to 4 mailing containers up to ø 44 mm; Restraint 198 x 107 x 50 mm	50 pcs./case (not assembled)
95.902	Suited for 1 to 10 mailing containers up to ø 30 mm; attached foam bag 220 x 170 x 40 mm	50 pcs./case (not assembled)
84.1412.007	Self-adhesive label 145 x 98.5 mm with Aesculapian rod	1,000 pcs./case (leporello folded)



NEW

Universal mailing box

- ☐ Approved mailing and transport system in accordance with packaging regulations P 650 IATA/ADR
- ☐ Suitable as an outer packaging for cool transport containers (see p. 124)

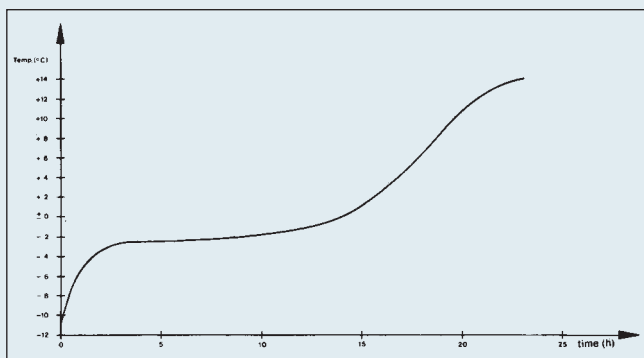
Order Number	Description/Size	Packaging
95.903	Suited for 1 to 16 mailing containers up to ø 44 mm	50 pcs./case (not assembled)
95.1710	Foam Bag, 185 x 230 mm	200 pcs./case

Mailing Containers



Example thawing graph

Sample: tube filled with 10 ml water, deep-frozen
Measuring: temperature probe in sample
Freezing temperature: -12°C
Surrounding temperature when thawing: $18^{\circ}\text{C} - 21^{\circ}\text{C}$



NEW

Cool transport container for frozen specimens

The mailing packaging enables the safe cool transportation of medical and biological samples.

Each mailing container can accommodate two sample tubes of 10 ml volume. It is ideally suited for the 9 ml S-Monovette® or any tube of 16.5 mm diameter and an overall length of max. 107 mm.

The mailing container is filled with a coolant and should be frozen in a horizontal position at least at -12°C before mailing. The temperature in the sample tube is illustrated by the thawing graph shown below.

A Styrofoam casing protects against warmth and possible transit damage.

A private label can be printed onto the container on request.

The cool transport container is not suitable for samples that are not allowed to freeze, as a non-frozen sample would freeze when placed inside the deep-frozen cool transport container.

Complete pack comprising one mailing container with coolant, styrofoam casing and rubber band

Order Number	Packaging Pcs./Case
95.1123	6

Styrofoam packaging with rubber band

Order Number	Packaging Pcs./Case
95.1011	42

Mailing box for cool transport container

Outer box for transport in accordance with P 650 Packaging Regulations

Order Number	Packaging Pcs./Case
95.903	50 (not assembled)

Absorbent liner for cool transport container

Order Number	Packaging Pcs./Case
78.671	2,500

Mailing vessel (PP) for slides

The mailing vessel is manufactured from polypropylene and is suitable for the safe transportation or storage of 2 glass microscope slides (or 4 if placed against each other).

The lid features a ventilation hole.

Containers are also available without ventilation hole.

Order Number	Packaging Pcs./Case
86.972	500
86.972.150 without ventilation	500

Quality racks for all tube options

S-Monovette® rack

Universal compact block rack for space-saving and systematic sample storage. Choose from 6 different colours to organize your laboratory.

Our versatile rack range includes more than 60 different options offering optimum solutions for any application required. Whether for S-Monovettes, tubes with a wide selection of different diameters, micro tubes or reaction cups, the Sarstedt range provides multipurpose solutions to suit all requirements. The high-grade, resistant rack material is durable and can be autoclaved. Special features facilitate laboratory work, e.g. notched apertures enable single-handed opening and closing of Sarstedt micro tubes.

Rack Series 18 / 20 / 48

A wide range with a variety of diameters. Racks are made from unbreakable, transparent plastic and can be easily disassembled for cleaning.

Series 48

4 x 12 Apertures
Diameters 8 to 17.2 mm

Series 20

With hood and request form compartment

Series 20

2 x 10 Apertures
Diameters 10.5 to 26 mm

Series 18

3 x 6 Apertures
Diameters 8 to 17.2 mm

Racks 'Series 18'

3 Rows, with 6 apertures per row



- ☐ From impact-resistant material
- ☐ Autoclavable up to 121°C, [important notes on autoclaving: see page 163](#)

Dimensions	Diameter of aperture (see table below)		
height — 40 mm	upper aperture	(casing)	— d1
length — 137 mm	central aperture	(central plate)	— d2
width — 70 mm	lower aperture	(base plate)	— d3

Order Number	Diameter of Aperture			Suitable for
	d1 mm	d2 mm	d3 mm	
93.850.001	17.2	17.2	8	Tubes, square cuvettes, all S-Monovette® diameters
93.850	15.8	15.8	8	Tubes, S-Monovettes of 15 mm Ø and 13 mm Ø
93.827.013	13.5	13.5	8	Tubes and S-Monovettes of 13 mm Ø
93.827	12.8	12.8	8	Tubes and S-Monovettes of 11 mm Ø
93.870	11.5	12.8	4.8	Micro tubes of 2 ml, Microvette®
93.826	11.5	7	—	Standard Micro tubes e.g. 72.690, 72.696
93.894	10.5	12.8	4.8	Micro tubes with screw cap – notched aperture enables single-handed operation
93.858	8	4.5	—	Micro tubes of 8 mm Ø e.g. 72.699, 72.735

Racks 'Series 20'

2 Rows, with 10 apertures per row



- ☐ From impact-resistant material
- ☐ Autoclavable up to 121°C, important notes on autoclaving: see page 163

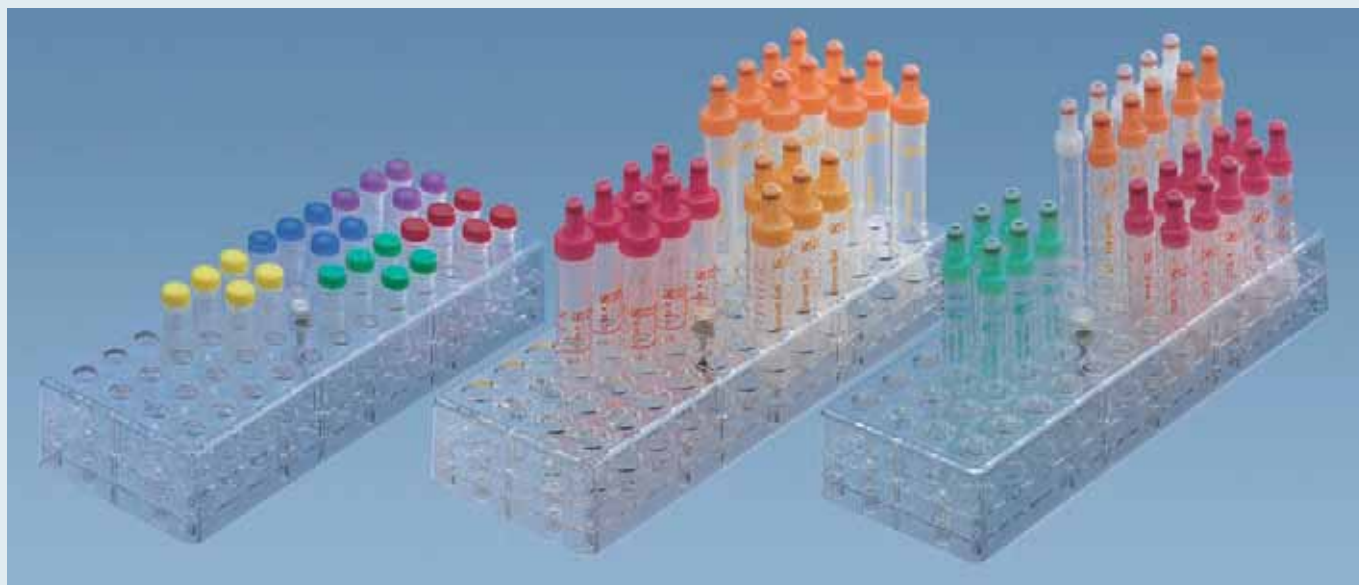
Diameter of aperture (see table below):

upper aperture (casing) — d1
 central aperture (central plate) — d2
 lower aperture (base plate) — d3

Order Number	Diameter of Aperture			External Dimensions	Suitable for
	d1 mm	d2 mm	d3 mm	height — h length — l width — w	
93.841.100	26	26	10	h — 60 l — 327 w — 72	Tubes
93.893.100	21.5	26	10	h — 60 l — 327 w — 72	Tubes (100 x 21 mm Ø)
93.844.100	17.2	17.2	8.5	h — 55 l — 257 w — 62	Tubes, all S-Monovette® diameters
93.1097.100	17.2	17.2	8.5	h — 55 l — 257 w — 74	Racks with side-pocket for tubes, all S-Monovette® diameters
93.846.100	13.5	13.2	8.5	h — 40 l — 257 w — 62	Tubes, S-Monovettes of 13 mm Ø and 11 mm Ø
93.849.100	11	11	4.8	h — 40 l — 257 w — 62	Standard Micro tubes, e.g. 72.690, 72.696, 72.695, 72.708, Microvette®
93.848.100	10.5	11	4.8	h — 40 l — 257 w — 62	Micro tubes with screw cap – notched aperture enables single-handed operation
93.1102.001	hood from brown translucent material			h — 72 l — 256 w — 62	Fitting rack no. 93.1097.100 The hood prevents any possibility of contamination

Racks 'Series 48'

4 Rows, with 12 apertures



- ☐ From impact-resistant material
- ☐ Autoclavable up to 121°C, important notes on autoclaving: see page 163

Dimensions

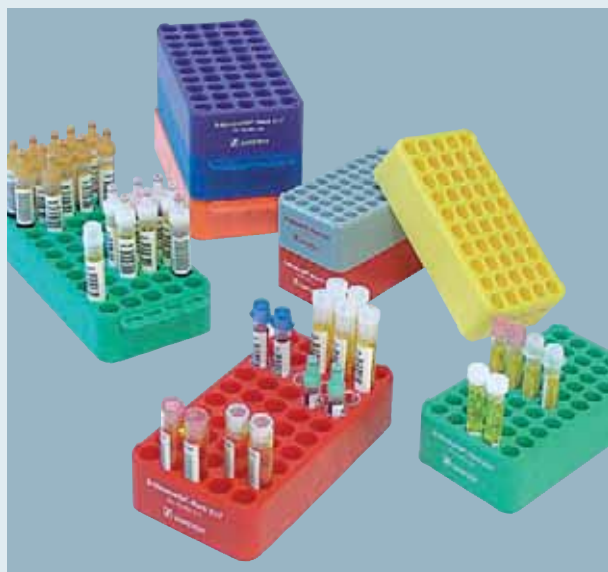
height — 40 mm
length — 257 mm
width — 90 mm

Diameter of aperture (see table below)

upper aperture (casing) — d1
central aperture (central plate) — d2
lower aperture (base plate) — d3

Order Number	Diameter of Aperture			Suitable for
	d1 mm	d2 mm	d3 mm	
93.1431.001	17.2	17.2	8	Tubes, square cuvettes, all S-Monovette® diameters
93.1431	15.6	15.6	8	Tubes, S-Monovettes of 15 mm Ø and 13 mm Ø
93.838.013	13.5	13.5	8	Tubes, S-Monovettes of 13 mm Ø
93.838	12.2	12.2	8	Tubes, S-Monovettes of 11 mm Ø
93.868	11	11.5	4.8	Micro tubes of 2 ml, Microvette®
93.837	11	7	—	Standard Micro tubes, e.g. 72.690, 72.696
93.1428	10.5	11.5	4.8	Micro tubes with screw cap – notched aperture enables single-handed operation
93.48.011	8	4.5	—	Micro tubes of 8 mm Ø e.g. 72.699, 72.735

S-Monovette® Rack



The universal block rack for a range of applications

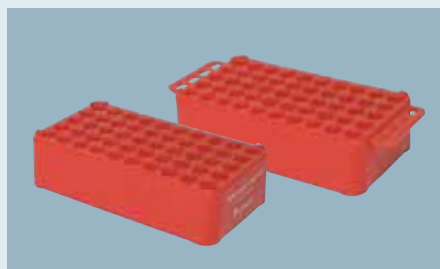
- ☐ 50 apertures - 5 rows of 10 apertures each
- ☐ Available in three sizes, suitable for all S-Monovette® diameters and for tubes from Ø 8 up to Ø 17 mm
- ☐ Various colours enable universal use and help to organise you laboratory
- ☐ Especially suitable for space-saving sample storage
- ☐ Autoclavable up to 121°C, important notes on autoclaving: see p. 163
- ☐ Marking of each aperture as well as printing possible upon customer request
- ☐ The D13 and D17 rack is also available with handles

Rack with 50 apertures

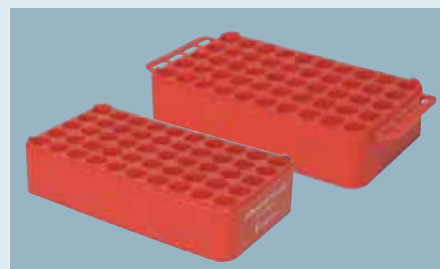
Rack D12



Rack D13



Rack D17



Rack D12 without handles

Suitable for S-Monovette® up to Ø 11.0 mm and tubes up to Ø 12.0 mm.

Dimensions: (length x width x height)
without handle: 152 x 80 x 45 mm

Order Number	Colour	Packaging Pcs./Case
93.854	grey	20
93.854.121	red	20
93.854.122	yellow	20
93.854.123	green	20
93.854.124	blue	20
93.854.125	orange	20

Other colours are available on request. Printing of the front/long side with a special print is possible as of a minimum order quantity of 100 pieces (front side print is not possible for the model with handles).

NEW

Rack D13 with and without handles

Suitable for S-Monovette® and tubes from Ø 8 mm up to Ø 13 mm.

Dimensions: (length x width x height)
without handles: 180 x 96 x 45 mm
with handles: 216 x 96 x 45 mm

Order Number	Colour	Handles	Packaging Pcs./Case
93.853	grey	without	16
93.855		with	12
93.853.131	red	without	16
93.855.131		with	12
93.853.132	yellow	without	16
93.855.132		with	12
93.853.133	green	without	16
93.855.133		with	12
93.853.134	blue	without	16
93.855.134		with	12
93.853.135	orange	without	16
93.855.135		with	12

Rack D17 with and without handles

Suitable for S-Monovette® up to Ø 16 mm and tubes up to Ø 16.8 mm

Dimensions: (length x width x height) without handles: 209 x 109 x 45 mm - with handles: 246 x 109 x 45 mm

Order Number	Colour	Handles	Packaging Pcs./Case
93.852	grey	without	20
93.851		with	12
93.852.171	red	without	20
93.851.171		with	12
93.852.172	yellow	without	20
93.851.172		with	12
93.852.173	green	without	20
93.851.173		with	12

Order Number	Colour	Handles	Packaging Pcs./Case
93.852.174	blue	without	20
93.851.174		with	12
93.852.175	orange	without	20
93.851.175		with	12
93.852.168	brown	without	20
93.852.169	violet	without	20
93.852.170	white	without	20

Double block racks with 100 apertures

Two racks are connected to each other. Especially advantageously for an efficient reserve of samples.

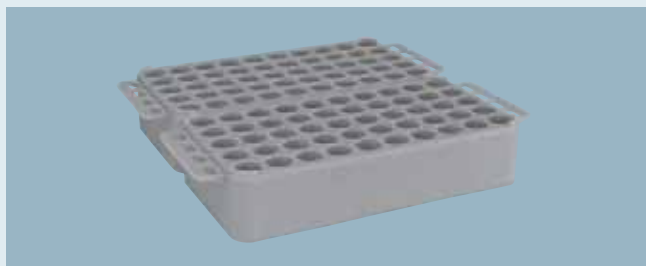
With the mentioned order numbers these racks are only available in grey colour.

Other colours and a special print are available upon request.



Double block racks connected at front ends

Order Number	Rack Type	Handles	Packaging Pcs./Case
93.853.300	D 13	without	8
93.852.300	D 17	without	12



Double block racks connected at lateral ends

Order Number	Rack Type	Handles	Packaging Pcs./Case
93.854.200	D 12	without	12
93.853.200	D 13	without	8
93.852.200	D 17	without	16
93.851.200	D 17	with	6

Dimensions of double block racks
(length x width x height)

Rack D12 -

Connected at lateral ends:

without handles 152 x 160 x 45 mm

Rack D13 -

Connected at lateral ends:

without handles 180 x 192 x 45 mm

Connected at front ends:

without handles 360 x 96 x 45 mm

Rack D17 -

Connected at lateral ends:

without handles 209 x 218 x 45 mm

with handles 246 x 218 x 45 mm

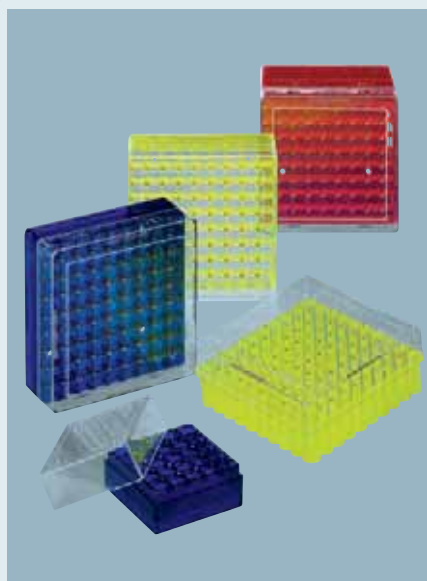
Connected at front ends:

without handles 418 x 109 x 45 mm




Storage Boxes

NEW

Cryo boxes for low temperature range storage to -196°C



- ☐ High-quality durable polycarbonate storage boxes for a deep-freeze temperature range
- ☐ Numerical coding at each aperture enables quick sample identification
- ☐ Boxes autoclavable at 121°C*

Compatible tube designs	1.2 - 2.0 ml			3.5 - 5.0 ml
	5x5	9x9	10x10	9x9
Storage capacity	25	81	100	81
Box size (WxDxH) in mm	75 x 75 x 52	132 x 132 x 53	132 x 132 x 53	132 x 132 x 95
Ideal for tubes with	Internal and external thread		Internal thread	Internal and external thread
				



Packaging	Colour	Order Number			
5/bag 20/case	red	93.872.225	93.873.281	93.874.210	93.875.281
	yellow	93.872.425	93.873.481	93.874.410	93.875.481
	blue	93.872.625	93.873.681	93.874.610	93.875.681

NEW

Suited for the storage of tubes and containers to -90°C

- ☐ Alphanumeric colour-coding for easy sample identification
- ☐ Compatible tube designs up to 45 x 12 mm
- ☐ Boxes from polypropylene, autoclavable at 121°C*



- ☐ Box with slip lid, compartmentalized 9 x 9
- ☐ Dimensions: 130 x 130 x 45 mm
- ☐ Packaging: 5/bag, 20/case

Colour	Order Number
neutral	93.876
pink	93.876.281
orange	93.876.381
yellow	93.876.481
green	93.876.581
blue	93.876.681



- ☐ Box with hinged lid, compartmentalized 10 x 10
- ☐ Dimensions: 150 x 140 x 55 mm
- ☐ Packaging: 5/bag, 20/case

Colour	Order Number
neutral	93.877
pink	93.877.210
orange	93.877.310
yellow	93.877.410
green	93.877.510
blue	93.877.610

*Important notes on autoclaving: see p. 163



Medical Products

Urine Drainage Systems

<i>Urine Drainage Systems UD3_{plus}, UD3 TUR-BAG</i>	134
<i>Urine Measuring System UM 500</i>	135
<i>Urine and Secretion Bags</i>	136-138
<i>Universal Attachment for Urine and Secretion Bags</i>	136

Incontinence Management

<i>Urine Leg Bags</i>	138
<i>Adhesive Straps, UroStretch</i>	139

Infusion/Transfusion Systems

<i>Infusion Systems</i>	140
<i>CVP Measuring Systems, Transfusion Instruments</i>	141
<i>Accessories</i>	142-143
<i>Infusion Filters</i>	144
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Miscellaneous Medical/Hospital Products

<i>Colon Systems</i>	146
<i>Navel Clamp, Phimosis Bell</i>	147
<i>Transfusion Medicine</i>	148
<i>Anaesthesia</i>	149

Urine Drainage Systems



UD 3plus

Enclosed urine drainage system with 2.0 L drainage tap bag

- ☐ Universal step connector with integral pierceable membrane for hygienic urine collection
- ☐ Drip chamber with optimised bacteria-tight ventilation and membrane reflux valve
- ☐ Universal holder for safe attachment to all common beds, multiple use is possible
- ☐ Ventilated 2 L urine bag with printed graduations
- ☐ Single-handed drainage tap with pocket

Order Number	Volume	Tube Length	Description	Packaging Pcs./Case
74.5330	2.0 L	100 cm	with holding, sterile	25
74.5330.010	2.0 L	120 cm	with holding, sterile	25
74.5335	2.0 L	100 cm	without holding, sterile	20
74.5335.010	2.0 L	120 cm	without holding, sterile	20
74.5350	Universal holder for safe attachment to all common beds			15



UD 3 TUR-BAG

The enclosed urine drainage system for bladder irrigation

- ☐ Large-volume, kink resistant 100 cm long drainage tubing
- ☐ Drip chamber with hydrophobic ventilation system for optimum irrigation control
- ☐ Capacity: 4 L
- ☐ Single-handed drainage tap for rapid emptying

Order Number	Volume	Description	Packaging Pcs./Case
74.5340	4.0 L	UD 3 TUR-BAG with pump ball, sterile	20
74.5340.001	4.0 L	UD 3 TUR-BAG without pump ball, sterile	25

Urine Measuring System



UM 500 Urine measuring system

500 ml measuring chamber with integral ventilated drip chamber, and anti-reflux valve, overflow chamber, precision measuring range, central drainage tap and measuring chamber ventilation.

- ☐ Also available with permanent drainage bag and tap or exchange bag
- ☐ Individual attachment with elastic straps or special hooks to fit side rails
- ☐ Individually packed, sterile

Order Number	Volume	Description	Packaging Pcs./Case
74.5610.100	2,000 ml permanent bag	UM 500 with hooks to fit side rails	15
74.5610.200	2,000 ml permanent bag	UM 500 with elastic straps	15
74.5620.200	1,800 ml exchange bag	UM 500 with elastic straps	15
74.5630.200	3,000 ml exchange bag	UM 500 with elastic straps	15
74.5622.005	1,800 ml	1,800 ml drainage bag for UM 500	100
74.5624.005	3,000 ml	3,000 ml drainage bag for UM 500	100
74.5763.010		Replacement strap	50
74.5650.010		Hooks to fit wide bed frames	150



Rapid draining

Rapid draining of the measuring chamber is ensured by a rotary valve which allows maximum flow rates in line with optimum pressure balancing within the system (bacteria-tight ventilation of drip chamber, measuring chamber and collection bag).



Precise reading

A clear and comprehensive millilitre graduation facilitates precise registration of even the smallest volumes.

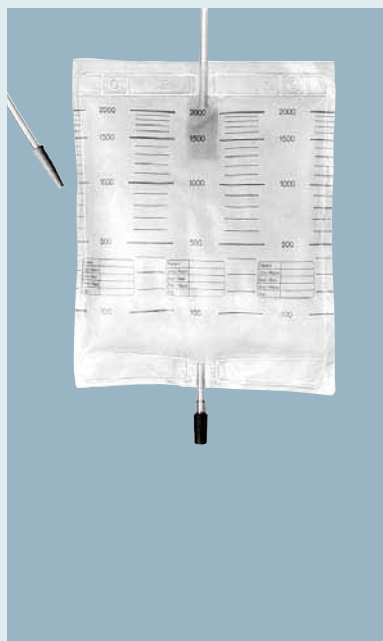
The total measuring volume of 500 ml and the clear graduation permit exact balancing also in cases of high output.



Hygienically safe

The integral drip chamber with bacteria-tight ventilation and anti-reflux membrane valve, plus the additional anti-reflux valve in the collection bag, ensures it to be hygienically safe and prevents retrograde bacterial migration.

Urine and Secretion Bags

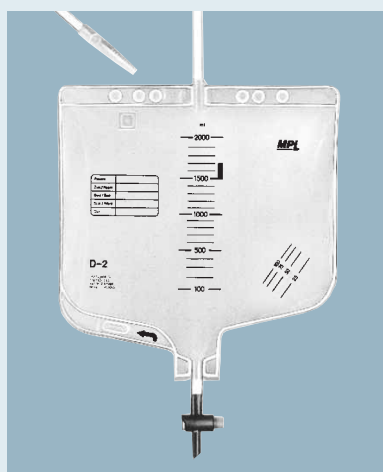


Urine and secretion bags with anti-reflux and base relief valve

- ☐ Universal step connector
- ☐ Length of transfer tubing 90 cm, inner diameter 5 mm
- ☐ Anti-reflux valve
- ☐ Push-Pull valve

Order Number	Volume	Description	Packaging Pcs./Case
74.5210.101	1.5 L	non-sterile	150
74.5210.001	1.5 L	ETO*-treated	150
74.5220.101	2.0 L	non-sterile	150
74.5220.001	2.0 L	ETO*-treated	150
74.5220.005	2.0 L	sterile, ind. wrapped	100

* ethylene-oxide



D-2 Urine drainage bag 2.0 L

- ☐ Step connector with integral sampling site
- ☐ Anti-reflux valve
- ☐ Bag ventilation
- ☐ Single-handed drainage tap

Order Number	Volume	Description	Packaging Pcs./Case
74.5455.005	2.0 L	D-2 urine drainage bag without attachment individually wrapped, sterile	50



Universal attachment for urine and secretion bags

Order Number	Description	Packaging Pcs./Case
74.5350	plastic suitable for all Sarstedt urine and secretion bags	15
74.5760	metal	50

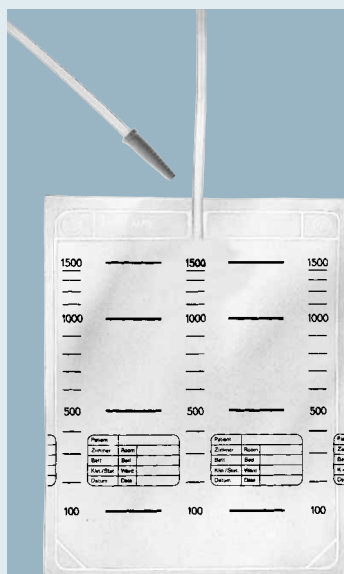
Urine and Secretion Bags



Urine and secretion bags with anti-reflux valve

- ☐ Universal step connector
- ☐ Length of transfer tubing 90 cm, inner diameter 5 mm
- ☐ Anti-reflux valve
- ☐ Tear-off edge for disposal

Order Number	Volume	Description	Packaging Pcs./Case
74.5203.101	1.5 L	non-sterile	200
74.5203.001	1.5 L	ETO* treated	200
74.5203.005	1.5 L	sterile, ind. wrapped	100
74.5204.101	2.0 L	non-sterile	200
74.5204.001	2.0 L	ETO* treated	200
74.5204.005	2.0 L	sterile, ind. wrapped	100



Secretion bags

- ☐ Universal step connector
- ☐ Length of transfer tubing 90 cm, inner diameter 5 mm
- ☐ Tear-off edge

Order Number	Volume	Description	Packaging Pcs./Case
74.5201.101	1.5 L	non-sterile	200
74.5201.001	1.5 L	ETO* treated	200
74.5201.005	1.5 L	sterile, ind. wrapped	100
74.5202.101	2.0 L	non-sterile	200
74.5202.001	2.0 L	ETO* treated	200
74.5202.005	2.0 L	sterile, ind. wrapped	100

Gall secretion bags with luer lock connection

Order Number	Volume	Description	Packaging Pcs./Case
74.5206.005	1.5 L	sterile, ind. wrapped	100
74.5207.005	1.5 L with base relief valve	sterile, ind. wrapped	100

* ethylene-oxide

Incontinence Management



Comfort urine leg bags

- ☐ Comfortable viscose material
- ☐ 10 cm or 45 cm tube length
- ☐ Anti-reflux valve
- ☐ 500 ml or 1,000 ml capacity
- ☐ Single use base relief valve with overnight connection

Order Number	Description	Packaging Pcs./Case
74.5810.005	500 ml, Tube length 10 cm ind. wrapped, sterile	30
74.5810.101	500 ml, Tube length 10 cm non-sterile	30
74.5815.005	500 ml, Tube length 45 cm ind. wrapped, sterile	30
74.5815.101	500 ml, Tube length 45 cm non-sterile	30
74.5820.005	1,000 ml, Tube length 10 cm ind. wrapped, sterile	30
74.5820.101	1,000 ml, Tube length 10 cm non-sterile	30
74.5825.005	1,000 ml, Tube length 45 cm ind. wrapped, sterile	30
74.5825.101	1,000 ml, Tube length 45 cm non-sterile	30



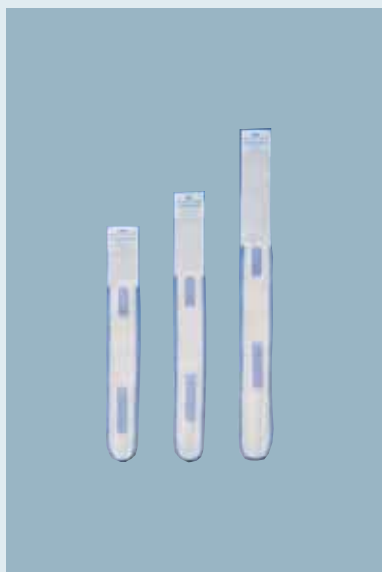
Urine leg bags

- ☐ With straight or canted 10 cm inlet tube
- ☐ Anti-reflux valve
- ☐ Capacity 750 ml
- ☐ Base relief valve

Order Number	Description	Packaging Pcs./Case
74.5230.001	with straight inflow tubing ETO* treated	200
74.5230.005	with straight inflow tubing ind. wrapped, sterile	50
74.5230.101	with straight inflow tubing non-sterile	200
74.5231.001	with canted inflow tubing ETO* treated	200
74.5231.005	with canted inflow tubing ind. wrapped, sterile	50
74.5231.101	with canted inflow tubing non-sterile	200

* ethylene-oxide

Incontinence Management



Velcro band for attachment of leg bags

High level of comfort

- ☐ Full-width elastic design
- ☐ Comfortable, padded material
- ☐ 3 different sizes for individual fit
- ☐ Resistant to wear and washable (40°C)



Order Number	Description	Packaging Pcs./Case
74.5766.001	Size: S 380 - 430 mm	10
74.5766.002	Size: M 440 - 530 mm	10
74.5766.003	Size: L 550 - 650 mm	10



UroStretch for safe leg bag attachment

Elastic, textile tubular bandage for leg bag attachment.
For use with all urine leg bags up to 750 ml.
Suitable for multiple use and washable at 40° C.

UroStretch offers increased user comfort due to:

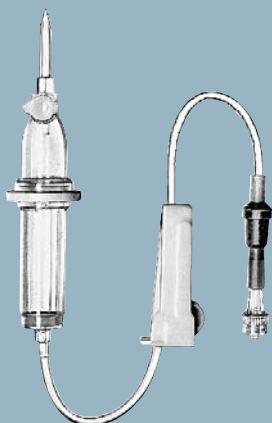
- ☐ No contact of leg bag with the skin (to avoid allergies and skin irritation)
- ☐ Full-length fixation of leg bag surface
- ☐ 4 different sizes for individual fit
- ☐ Reduction of liquid noise

Order Number	Description	Packaging Pcs./Case
74.5767.001	Size: S yellow colour code (lower leg)	10
74.5767.002	Size: M blue colour code	10
74.5767.003	Size: L brown colour code	10
74.5767.004	Size: XL green colour code	10



The UroStretch is pulled over the thigh from below so that the coloured band points towards the body.
The red strip should be positioned approximately 5 cm above the knee.
The leg bag is placed on top and the drainage tap is passed through the UroStretch opening in the center of the red strip.

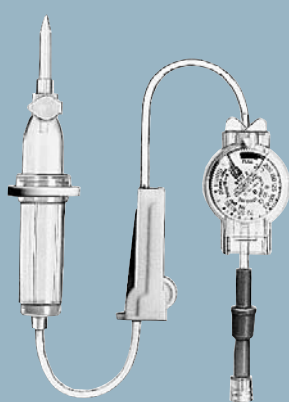
Finally, the outer side of the UroStretch, still resting on the lower leg, is pulled over the leg bag.



Infusion system Air G for gravity infusion

- ☐ Sealable, bacteria-tight ventilation
- ☐ Large PVC-free drip chamber with flexible base part
- ☐ 15 µm particle filter
- ☐ Tube length 150 cm
- ☐ Precision-V-roll clamp
- ☐ Injection spacer
- ☐ Luer lock connection

Order Number	Description	Packaging Pcs./Case
74.4101	ind. wrapped, sterile	100



Infusion system Air G with precision drop control

- ☐ Complete with infusion system 74.4101
- ☐ Constant drip rates due to tube-independent regulation
- ☐ Roll clamp for short-term infusion interruption

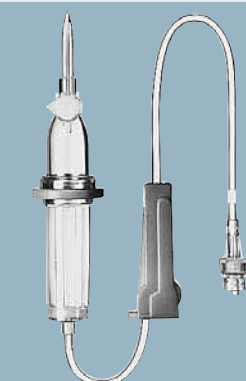
Order Number	Description	Packaging Pcs./Case
74.4103	ind. wrapped, sterile	50



Infusion system Air P

- ☐ Sealable, bacteria-tight ventilation
- ☐ Large PVC-free drip chamber with flexible base part
- ☐ 15 µm particle filter
- ☐ Tube length 175 cm
- ☐ Precision-V-roll clamp
- ☐ Luer lock connection

Order Number	Description	Packaging Pcs./Case
74.4113	ind. wrapped, sterile	100



Infusion system Air P with anti-reflux valve for patient-safe parallel infusion

- ☐ Sealable, bacteria-tight ventilation
- ☐ Large PVC-free drip chamber with flexible base part
- ☐ 15 µm particle filter
- ☐ Tube length 175 cm
- ☐ Precision-V-roll clamp
- ☐ Luer lock connection with integral anti-reflux valve

Order Number	Description	Packaging Pcs./Case
74.4120	ind. wrapped, sterile	100



Infusion system Air G with CVP Measuring system

- ☐ Complete with infusion system 74.4101
- ☐ Enclosed tube system
- ☐ Integral three-way tap
- ☐ Bacteria-tight ventilation of the measuring tube
- ☐ Measuring tube 150 cm
- ☐ Tube length 80 cm

Order Number	Description	Packaging Pcs./Case
74.4406	ind. wrapped, sterile	50



CVP Measuring system

- ☐ Three-way tap
- ☐ Bacteria-tight ventilation of the measuring tube
- ☐ Measuring tube 150 cm
- ☐ Tube length 80 cm

Order Number	Description	Packaging Pcs./Case
74.4402	ind. wrapped, sterile	50

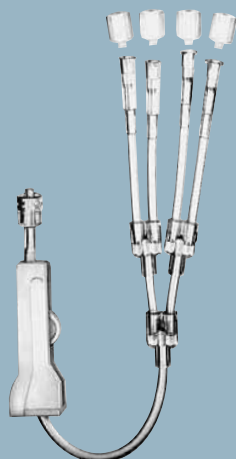


Transfusion set B for blood bags

- ☐ Universal needle
- ☐ Blood filter, mesh width 200 μm , filtration 10 cm^2
- ☐ Large PVC-free drip chamber with flexible base
- ☐ Tube length 150 cm
- ☐ Injection spacer
- ☐ Luer lock connection

Order Number	Description	Packaging Pcs./Case
74.4255	ind. wrapped, sterile	100

Accessories for Infusion



LS - Connector for simultaneous infusion

Order Number	Description	Packaging Pcs./Case
74.4301	LS - 2 Connector	200 ind. wrapped, sterile
74.4302	LS - 4 Connector	100 ind. wrapped, sterile



Valve manifolds, 5-way and 3-way

- ☐ Colour-coded
- ☐ Transparent housing
- ☐ Monoblock version
- ☐ Adapter for safe luer lock connection

Order Number	Description	Packaging Pcs./Case
74.4420	3-way	50 ind. wrapped, sterile
74.4422	3-way 150 cm Connection	50 ind. wrapped, sterile
74.4412	5-way	50 ind. wrapped, sterile
74.4414	5-way 150 cm Connection	50 ind. wrapped, sterile



Three-way stopcock

- ☐ Can be rotated through 360°
- ☐ Adapter for safe luer lock connection

Order Number	Description	Packaging Pcs./Case
74.4410.001	blue	150 ind. wrapped, sterile
74.4410.002	red	150 available on request
74.4410.003	yellow	150 available on request
74.4410.004	white	150 available on request
74.4410.005	green	150 available on request

Accessories for Infusion



Closure

- ☐ Red
- ☐ Luer lock inner/outer connection

Order Number	Description	Packaging Pcs./Case
74.4311	ind. wrapped, sterile	100



IN - Stopper

- ☐ Yellow
- ☐ Luer lock connection
- ☐ Possibility of injection due to membrane

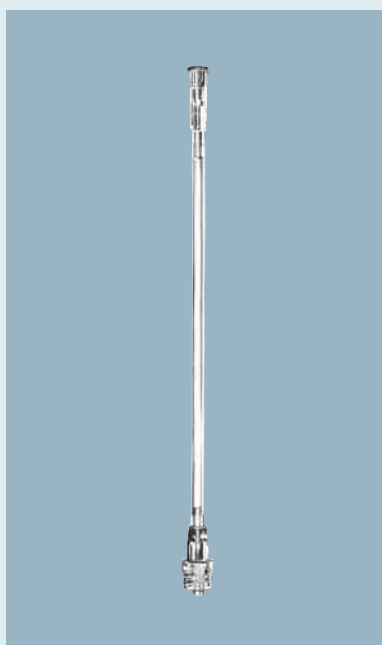
Order Number	Description	Packaging Pcs./Case
74.4312	ind. wrapped, sterile	100



Transfer - Set

- ☐ Dissolving and mixing of sterile solutions and drugs
- ☐ Short, slim needle
- ☐ Minimal residual volume

Order Number	Description	Packaging Pcs./Case
74.4340	ind. wrapped, sterile	200



Extensions

Order Number	Length	Packaging Pcs./Case
74.4304	30 cm	200 ind. wrapped, sterile
74.4305	75 cm	200 ind. wrapped, sterile
74.4306	100 cm	150 ind. wrapped, sterile
74.4307	150 cm	150 ind. wrapped, sterile



Flat infusion filter for particulate and microbial filtration

Product features

Hydrophilic 0.2 μm filter membrane for the prevention of

- microbial contamination
- particulate contamination

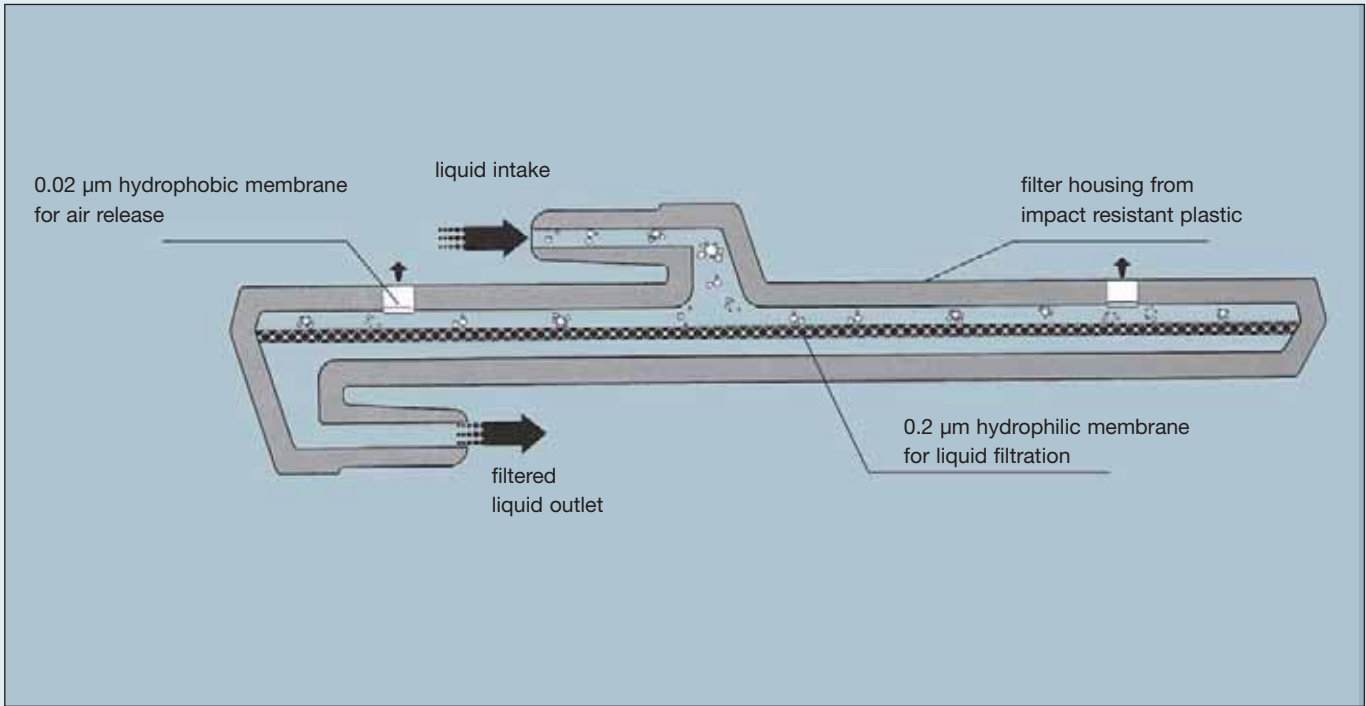
Hydrophobic 0.02 μm filter membrane for the prevention of

- air bubble infusion

- ☐ Efficient 10 cm^2 filtration surface
- ☐ Flow rates of up to 20 ml/min.
- ☐ Position-independent ventilation
- ☐ Can be used with pressure and gravity infusion
- ☐ Pressure-stable up to 3.2 bar
- ☐ Economical due to extended use times of up to 96 h without changing the system

Literature on bacteria retention and drug compatibility is available on request

Order Number	Description	Packaging Pcs./Case
74.4335	ind. wrapped, sterile	50



Infusion Sets



Infusion Set 1

- ☐ 5-Way valve manifold, colour-coded
- ☐ 1,600 mm tubing
- ☐ Three-way stopcock
- ☐ 96 h flat infusion filter 0.2 µm
- ☐ 200 mm tubing
- ☐ 2 x three-way stopcock

Order Number	Description	Packaging Pcs./Case
74.4430	ind. wrapped, sterile	50



Infusion Set 2

- ☐ 5-Way valve manifold, colour-coded
- ☐ 1,600 mm tubing
- ☐ 96 h flat infusion filter 0.2 µm
- ☐ 200 mm tubing
- ☐ 2 x three-way stopcock

Order Number	Description	Packaging Pcs./Case
74.4431	ind. wrapped, sterile	50



Infusion Set 3

- ☐ 5-Way valve manifold, colour-coded
- ☐ 1,600 mm tubing
- ☐ 2 x three-way stopcock
- ☐ 96 h flat infusion filter 0.2 µm
- ☐ 200 mm tubing
- ☐ Three-way stopcock

Order Number	Description	Packaging Pcs./Case
74.4432	ind. wrapped, sterile	50

All combinations shown above are examples for customised products and available on request only.

Infusion sets made to customer's specifications, e.g. 3-way tap benches, LS connector or 5 µm filters, are available on request.



**Colon system with special intestinal tube
hygienic, low-cost radiopaque bag**

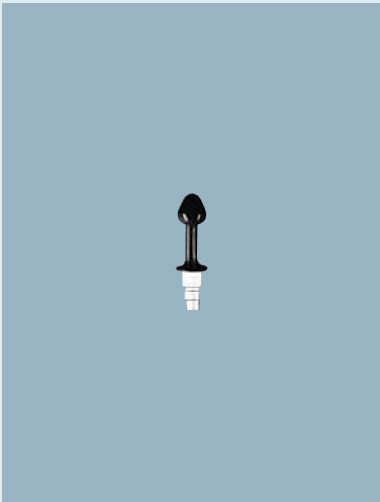
☐ Individually wrapped, sterile

Order Number	Packaging Pcs./Case
74.5510	25

Colon system without special intestinal tube

☐ Individually wrapped, sterile

Order Number	Packaging Pcs./Case
74.5520	25



Special intestinal tube Ø 23 mm, CH 69

☐ Individually wrapped, sterile

Order Number	Packaging Pcs./Case
74.5550	100

Miscellaneous Medical Products



Navel clamp

- ☐ For safe closure of the umbilical cord after delivery
- ☐ Individually wrapped, sterile

Order Number	Packaging Pcs./Case
74.4701	250



Phimosis bell

- ☐ For paediatric phimosis operation
- ☐ Individually wrapped, sterile

Order Number	Size	Ø in mm	Packaging Pcs./Case
74.5701	1	7	10
74.5702	2	10.6	10
74.5703	3	13	10
74.5704	4	16	10
74.5705	5	18	10

Latest technology for collecting, processing and transfusing blood products

Cordless Electronic Tube Stripper

Electronic tube stripper for automatic stripping of all standard blood bag tubing in under 2 seconds.

Multi-Sealer

Compact, high-frequency instruments for stationary or mobile sealing of blood bag tubing

MS Segmentation System

Automatic sealing and segmentation of blood bag tubing. Produces 3-7 segments simultaneously.

Thrombocyte Incubator and Agitator

The ideal solution for the storage of thrombocyte concentrates. The casing is made of stainless steel. The agitator trays are additionally coated with plastic. (not shown).

TOPSWING Blood Mixing and Weighing Device

Blood mixing and weighing device with innovative 3-D blood mixing motion for stationary and mobile blood donation use. The TOPSWING is compatible with a variety of convenient data transfer options: cable, USB card or DECT wireless technology.

SAHARA Thawing and Warming Systems

Designed for the hygienic and rapid thawing and warming of frozen blood products. The warming is a dry process, i.e. water is not used as the medium of heat transfer.

SAHARA inline

The SAHARA inline blood and infusion warmer operates on the through-flow principle and is used for inline warming of liquid blood products and infusion solutions during transfusion/infusion preventing or alleviating hypothermia in the patient.

Consumables for transfusion medicine

Our extensive range of ancillary products includes high-quality consumables for transfusion medicine:

- Blood bag systems for autologous blood collection
- Sealing plugs for blood bag tubes
- RedTag radiation indicators
- Cartons for blood component storage
- Labels for autologous blood products

Please ask for our detailed brochure containing further information.





For regional anaesthesia and pain therapy

Epidural anaesthesia and CSE

The REGANESTH® product range includes epidural needles, epidural catheters and catheter sets for all epidural anaesthesia requirements. Each set includes easy-to-use LOR syringe.

For a safe CSE, the REGANESTH® Tuohy needle may be combined with an appropriate REGANESTH® spinal needle.

Spinal anaesthesia

For regional anaesthesia close to the spinal column, thin REGANESTH® needles with pencil-point tips in various lengths are available.

An anatomically molded REGANESTH® grip with viewing chamber is of particular benefit.

Plexus anaesthesia

The range of products for regional anaesthesia away from the spinal column includes both unipolar stimulation needles for the single-shot technique and the compatible connections for electrical nerve stimulation.

Catheter sets for long-term pain therapy complete the range of plexus anaesthesia products.

Please ask for our detailed brochure containing further information.

Sample Preparation

Labelling - Sorting - Distributing

Decapper DC 1200, Recapper RC 1200, HSS High Speed Sorter 152

P.O.S. 720 152

Sample Distributor PVS 153

Centrifuges

Centrifuges MC 6, LC 6, LC 24 154-155

Mixers

Universal Mixer SM 1, Sarmix® M 2000, Sarmix® M 200 156

Sarmix® GM 1, Combi Mixer CMX 157

Test Plate Mixer TPM 4 157

Analysers

Blood Sedimentation

Sediplus® S 100, Sediplus® S 200, Sediplus® S 2000 158

Accessories for Sediplus® S 200 and Sediplus® S 2000 159

Instrument Technology

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Sample Preparation

Decapping – Sorting – Aliquoting - Labeling - Recapping

NEW

Decapper DC 1200 Recapper RC 1200



Mechanical De- and Recapping of sample tubes

- ☐ Minimizes the risk of a repetitive motion injury or accidental exposure
- ☐ High throughput of up to 1,200 tubes per hour
- ☐ Easy operation
- ☐ Accommodates a variety of tube types in mixed operation
- ☐ Sample relocation for the decapping process is avoided
- ☐ Accommodates most linear analyser racks

Sample Sorting System HSS Identification - Opening - Sorting



The direct route to the analyser

The high speed sample sorting system HSS has specifically been developed for the rapid automatic pre-sorting of sample tubes. The modular concept allows customised design for individual lab requirements (via a loading platform). Tubes with push-caps or screwcaps are fed into the system. It accommodates most types of centrifuge- or analyser specific carriers.

ID module reads bar code and senses tube type via height and cap colour. Error samples are sorted to dedicated area for manual processing.

Depending on order inquiry, tubes are decapped and sorted to analyser-, generic-, or archive racks.

Archive tubes may be automatically recapped.



Sarstedt P.O.S. 720

Petri Dish Sorting and Labeling System

- ☐ Genuine progress in the automation of bacteriology with 720 plates per hour
- ☐ Automatic labeling with barcode and alphanumeric text
- ☐ Reliable supply of all required dishes for test requests
- ☐ Sorting of dishes according to location
- ☐ Extensive configuration flexibility for individual adaptation to various laboratory processes
- ☐ Provision of labels for agar in tubes and other vessels

Sample Preparation

Decapping – Sorting – Aliquoting - Labeling - Recapping

Sample Distribution System PVS

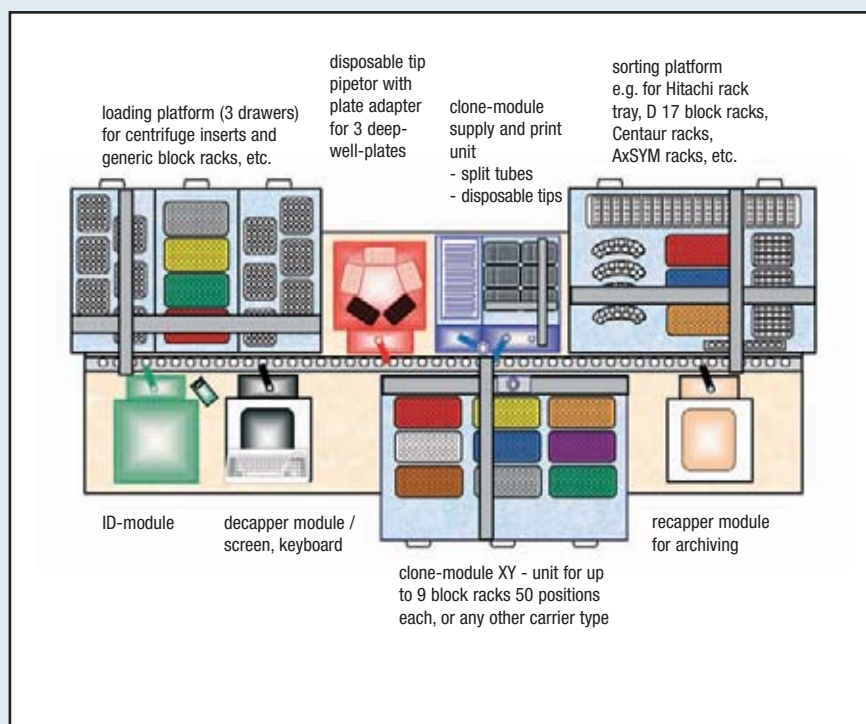
Identification - Decapping - Sorting - Aliquoting - Recapping



Independent from equipment with analysers the open architecture and the modular design of the sample distribution system PVS enables simple integration into an existing laboratory organisation.

Sample tubes (serum, whole blood, urine) are loaded in whatever carriers, e.g. centrifuge inserts and sorted into any analyser racks or archive trays. The clone module produces aliquots in bar coded secondary tubes according to test requests from LIS. Changing parameters is simple. Intelligent distribution strategies meet any requirement.

- ☐ High throughput
- ☐ Rack- or Puck track
- ☐ Loading in any carrier type
e.g. centrifuge inserts, analyser or generic racks
- ☐ Sample registration via bar code
- ☐ Detection of tube geometry and cap colour
- ☐ Precise volume management
- ☐ Quality detection (under development)
- ☐ Multiple tubes can be processed
- ☐ Production of any number of aliquots in bar coded secondary tubes
- ☐ Clot detection
- ☐ Sorting into any analyser rack types
- ☐ Error samples are detected and sorted to dedicated area
- ☐ Recapping for archive



Sample Preparation

Centrifuges / Liquid Handling



Centrifuge MC 6

- ☐ Ideal for quick spins, micro filtration and cell separation
- ☐ 6-fold fixed angle rotor for micro tubes from 2 ml to 0.2 ml and strip rotor for 2 strips of eight 0.2 ml micro tubes each

Order Number	Description
90.186.100	Centrifuge MC 6, 230 V, incl. rotor, strip rotor and adapter sets
92.186.110	Rotor MC 6 - 1.5 ml, 6-fold
92.186.111	Strip rotor MC 6 - 0.2 ml, 2 x 8-fold
92.186.112	Adapter MC 6 for 0.5/0.6 ml micro tubes, pack of 6
92.186.113	Adapter MC 6 for 0.2 ml micro tubes, pack of 6



M-Sarpette®

Automatic-Sarpette®

Automatic-Sarpette®

- ☐ Ergonomic design
- ☐ Light weight for labor saving operation
- ☐ Environmentally friendly nickel metal hydride battery
- ☐ Three independent aspiration and dispensing speeds

Order Number: 90.189.100

with recharger and stand

Replacement membrane filter for Automatic-Sarpette®

Order Number: 92.189.120 (5 pcs.)

M-Sarpette®

- ☐ Operates without wires or batteries
- ☐ Distinctly lighter in weight than automatic pipettors
- ☐ Special valve system enables safe and precise pipetting
- ☐ Integral hydrophobic filter functions as fluid barrier
- ☐ Compatible with pipettes of 1 to 100 ml volume

Order Number: 90.1427

Replacement membrane filter for M-Sarpette®

Order Number: 92.1417.001 (5 pcs.)

Replacement silicon adapter

Order Number: 92.1417.002

Sample Preparation

Centrifuges

NEW

Centrifuge LC 6

Ideal for physicians offices and small laboratories, (The LC 6 operates at a set speed and spin time). The unique swing-out rotor is designed to accommodate 6 blood or test tubes up to 17 x 100 mm.



Order Number	Description
90.184.500	Centrifuge LC 6, 230 V, EU plug, incl. swing-out rotor 6-fold, tube holder 100 / 75 mm
90.184.501	Centrifuge LC 6, 115 V, US plug, incl. swing-out rotor 6-fold, tube holder 100 / 75 mm
90.184.502	Centrifuge LC 6, 230 V, UK plug, incl. swing-out rotor 6-fold, tube holder 100 / 75 mm
92.184.551	Tube holder LC 6, for tubes 100 mm, 6 pieces
92.184.552	Tube holder LC 6, for tubes 75 mm, 6 pieces
92.184.553	Tube cushion spacer LC 6, 1 inch, 6 pieces
92.184.554	Tube cushion spacer LC 6, 0.25 inch, 6 pieces
92.184.555	Tube holder non-aerosol cap LC 6, 6 pieces

NEW

Centrifuge LC 24

The standard swing-out rotor and tube holders accommodate up to 24 tubes. Functional parameters such as acceleration, deceleration, duration, and speed are easily adjustable.



Order Number	Description
90.184.700	Centrifuge LC 24, 230 V, incl. swing-out rotor 6-fold, 6 tube holders 4-fold, 6 caps for tube holders
90.184.701	Centrifuge LC 24, 115 V, incl. swing-out rotor 6-fold, 6 tube holders 4-fold, 6 caps for tube holders
92.184.756	Swing-out rotor LC 24, 6-fold
92.184.751	Tube holder LC 24, 4-fold, for tubes 100 mm, 6 pieces
92.184.752	Tube holder LC 24, 1-fold, for tube 50 mm, 6 pieces
92.184.755	Tube holder non-aerosol cap LC 24, 6 pieces
92.184.753	Tube cushion spacer LC 24, 1 inch, 24 pieces
92.184.754	Tube cushion spacer LC 24, 0.25 inch, 24 pieces
92.184.757	Fixed-angle rotor LC 24, 6-fold, for tube holder 50 ml
92.184.758	Tube holder LC 24, 50 ml, for fixed-angle rotor 6-fold, 6 pieces
92.184.759	Fixed-angle rotor LC 24, 20-fold
92.184.760	Tube holder LC 24, 125 mm, for fixed-angle rotor 20-fold, 20 pieces
92.184.761	Tube holder LC 24, 100 mm, for fixed-angle rotor 20-fold, 20 pieces
92.184.762	Tube holder LC 24, 75 mm, for fixed-angle rotor 20-fold, 20 pieces
92.184.763	Tube holder cap LC 24 for fixed-angle rotor 20-fold, 20 pieces

Sample Preparation

Mixers

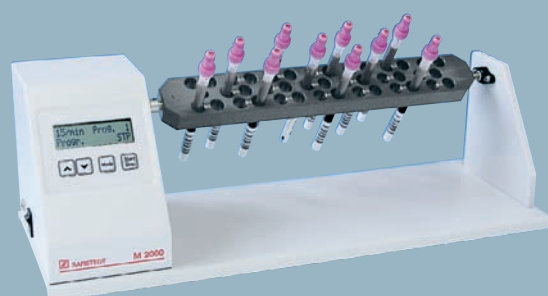


Universal Mixer SM 1

- ☐ Suitable for all common tube sizes
- ☐ Ensures thorough mixing of samples of different volumes

Order Number	Description
90.180.200	Universal Mixer SM 1, 230 V
90.180.201	Universal Mixer SM 1, 115 V

NEW



Sarmix® M 2000

- ☐ Rotating mixer with variable speed and vigorous shaking
- ☐ Ideal for use in haematology and research
- ☐ Mixing programs for a wide range of applications
- ☐ Exchangeable rotors for multiple tube sizes

Order Number	Description
90.180.600	Sarmix® M 2000, incl. mains adapter 12 V DC basic unit without rotor with EU/UK/US plugs
92.180.610	Plate rotor for 23 tubes Ø 8 - 12 mm
92.180.611	Plate rotor for 2 tubes up to Ø 35 mm and 6 tubes up to Ø 20 mm and 6 tubes up to Ø 12.5 mm
92.180.612	Block rotor for 40 tubes up to Ø 11.5 mm
92.180.613	Block rotor for 24 tubes up to Ø 15 mm
92.180.614	Block rotor for 7 tubes up to Ø 28 mm
92.180.615	Block rotor for 40 tubes up to Ø 8.5 mm (S-Sedivette®)
92.180.616	Block rotor for 14 tubes up to Ø 28 mm



Sarmix® M 200

- ☐ Accessory for use with S-Sedivette® in combination with Sediplus® S 200 and S 2000
- ☐ Standardised mixing procedure in 20 seconds
- ☐ Rotor holds 2 or 4 S-Sedivettes

Order Number	Description
90.180.700	Sarmix® M 200, incl. mains adapter 230/12
90.180.701	Sarmix® M 200, without mains adapter

Sample Preparation

Mixers



NEW

Sarmix® GM 1

- ☐ Gyrating mixer with 3-dimensional motion
- ☐ Accommodates all tube sizes, and the dimpled rubber mat holds tubes securely in place

Order Number	Description
90.181.400	Sarmix® GM 1, 230 V, EU plug
90.181.401	Sarmix® GM 1, 115 V, US plug
90.181.402	Sarmix® GM 1, 230 V, UK plug
92.181.410	Rubber mat



Combi Mixer CMX

- ☐ Orbital shaker for medical or chemical laboratories
- ☐ Variable electronic speed control
- ☐ Easily replaceable trays
- ☐ Suited for continuous operation

Order Number	Description
90.180.300	Combi Mixer CMX, 230 V, basic unit without trays
90.180.301	Combi Mixer CMX, 115 V, basic unit without trays
92.180.315	CMA 7, test plate tray
92.180.316	CMA 8, universal tray
92.180.318	CMA 12, micro tube tray



Test Plate Mixer TPM 4

- ☐ Special mixer for biotechnology, immunology and cell culture
- ☐ Careful and thorough mixing of test plates
- ☐ Variable speed control and timer
- ☐ Tray for two or four microtest plates enclosed

Order Number	Description
90.180.400	Test Plate Mixer TPM 4, 230 V
90.180.401	Test Plate Mixer TPM 4, 115 V



Sediplus® S 100

- ☐ Optimum results when used in combination with the Sediplus® ESR system and Westergren pipette
- ☐ 10 samples measured simultaneously and independently
- ☐ Digital display of results and measuring times via a multifunctional display

Incl.: LIS/prINTER interface

Option: Barcode reader

Order Number	Description
90.189.800	Sediplus® S 100, 100-240 V

Sediplus® S 200

- ☐ Optimal combination with the ESR system S-Sedivette®
- ☐ Results are pre-converted to the Westergren value in mm
- ☐ 10 samples measured simultaneously and independently
- ☐ Digital display of results and measuring times via a multifunctional display

Incl.: LIS/prINTER interface

Option: Barcode reader

Order Number	Description
90.189.900	Sediplus® S 200, 100-240 V

Sediplus® S 2000

- ☐ 40-channel ESR timer
- ☐ Optimal combination with ESR system S-Sedivette®
- ☐ 40 samples measured simultaneously and independently
- ☐ Digital display of results and measuring times via a multifunctional display
- ☐ Computer/prINTER interface
- ☐ Extension available to a maximum of 160 measuring channels

Order Number	Description
90.189.700	Sediplus® S 2000, 230 V
90.189.701	Sediplus® S 2000, 115 V
90.189.710	Extension module

Accessories on p. 155

Accessories for Sediplus® S 200 and S 2000



Test Sedivettes

For functional tests on the Sediplus® S 2000

Order Number	Description
91.189.716	Test Sedivettes, 1 Set

Thermo printer

To issue measuring data from S 100, S 200 and S 2000

Order Number	Description
90.189.720	Thermo printer with power supply 230/6 and connecting cable
90.189.722	Thermo printer with UK power supply 230/6 and connecting cable
90.188.055	Paper roll for thermo printer 5 pieces

Barcode reader

For sample identification on the Sediplus® S 2000

Order Number	Description
90.189.730	Barcode reader for Sediplus® S 2000

Sediplus® Data-Manager

Multifunctional interface for S 100, S 200 and S 2000

Order Number	Description
90.189.750	Sediplus® Data-Manager

Sarmix® M 200

Special mixer for 2 or 4 S-Sedivettes

Order Number	Description
90.180.700	Sarmix® M 200

Sarmix® M 2000

Rotating mixer for haematology and research applications

Order Number	Description
90.180.600	Sarmix® M 2000
92.180.615	Block rotor for 40 tubes up to Ø 8.5 mm (S-Sedivette®)

NEW

Electrophoresis

Electrophoresis on cellulose acetate foil

Manual electrophoresis with the Elphor® electrophoresis system

The Elphor® electrophoresis system is designed for manual serum protein electrophoresis on cellulose acetate foil and for a variety of standardized electrophoresis operations on agarose gels.

The system consists of the Elphor® electrophoresis chamber and electrode set with accessories.

Automatic evaluation with the Elphormat 5 densitometer

Connected to a PC, the Elphormat 5 densitometer automatically evaluates up to 30 samples in one operation. The transmitted light method is used for all measurements.

Fully automatic electrophoresis on cellulose acetate foil

The fully automatic ELPHOSCAN MINI Plus and ES2000 Plus instruments are proven systems for small and large sample throughputs and for conducting serum, urine and liquor electrophoreses.

The extensive CAF software (Windows PC) reliably controls and supports manual sample preparation on the serum pallet pipetting assistant, the complete electrophoresis process and result processing with patients and data management and other useful functions.

- Quality control in conformity with RiLi-BÄK
- Comprehensive software to meet many requirements
- Choice of print-out formats
- Bi-directional RS232 interface
- LAN connection
- Data storage on the PC hard disk
- Maintenance and test programmes

Consumables for electrophoresis

Our extensive range of ancillary high-quality consumables for various manual and automatic electrophoresis systems includes:

- Environmentally friendly reagents
- Control sera
- Cellulose acetate foils
- Dispocards / Seracards
- Filter papers
- Glass slides
- Recording paper
- Styluses

Please ask for our detailed brochure containing further information.



Thin-layer Chromatography



Solutions for routine workloads in chemical analysis

Thin-layer chromatography is essential for the analysis of mixed substances, particularly of drugs of plant origin. Sarstedt provides instrumentation for each step of the analysis process.

Sample application

HPTLC Applicator AS 30

The HPTLC Applicator AS 30 works using the 'spray-on' technique in which a stream of gas applies the sample to the HPTLC plate. A sample applicator specially modified for Sarstedt extends the AS 30 to a fully automatic application system. The integrated software enables the method parameters to be entered via a PC in a simple-to-read dialog window.

Chromatography development

Sarstedt provides horizontal and vertical separating chambers in glass or Teflon for all standard plate formats from 50 x 50 mm to 200 x 200 mm. A fully automatic development chamber provides a protective environment for chromatography in programmed conditions, with or without chamber saturation.

Derivatisation

ChromaJet DS 20

With the ChromaJet DS 20, reagents can be sprayed with maximum precision on thin-layer plates for foils under computer or microprocessor controlled conditions. A minimal reagent amount is required, and a homogenous distribution of the spray medium is assured. A transparent protective cover provides clear visibility during spraying and prevents the escape of aerosols.

Documentation

Digital image processing

High-resolution digital cameras with special lenses deliver detailed, images with exemplary color brilliance at resolutions of up to 7 million image elements. The ProViDoc® documentation program ensures GxP-compliant processing and problem-free image storage.

Evaluation

Classic densitometry

Under PC-controlled conditions, absorption and fluorescence are measured during transmission and remission. The useful spectral range measures 190 to 900 nm, and the monochromator, lamps and filters can be changed automatically. These features combined with the ProQuant computer program enable a wide variety of application options, and make processing and data management convenient, safe and GxP-compliant.

Please ask for our detailed brochure containing further information.

Our Philosophy: Quality Management without Compromise



Quality management means systematic planning of all phases of product development

Each phase is subject to a planning and control process from market analysis to the supply of the final product.

Properties of Plastics

Disposal and the environment

- ✓ The plastics used for our products are environmentally neutral during disposal.
- ✓ The plastics can be stored on waste disposal sites without any problems as they do not give off any harmful substances to air, ground or water.
- ✓ The disposal in waste incineration plants does not yield any harmful emissions.
- ✓ The plastics PS, PP and PE are valuable energy carriers to maintain incinerator temperature, the more plastics in waste, the less use of fuel.

	Polystyrene	Polypropylene	Polyethylene
Abbreviation	PS	PP	HD-PE High Density LD-PE Low Density
Optical features	transparent, bright surface 90% light permeability (with 400-800 nm)	translucent, bright surface	translucent to opaque, wax-like surface
General mechanical properties	high breaking strength and heat resistance, excellent electrical insulating features, not suitable for high centrifugal forces	high breaking strength, insensitive to tension cracks, high rigidity	relatively low breaking strength and surface hardness, high viscosity, soft to rigid, sensitive to tension cracks, waterrepellent
Autoclaving	not suitable	Products made from PP can be autoclaved up to 121°C without significantly impairing their mecha- nical properties. Users are to test for themselves if autoclaving may have any effect on other characteristic product features so as to influence the individual application concerned.	not suitable
Max. usage temperature* ¹	60 - 70°C	100 - 110°C	HD-PE 70 - 80°C LD-PE 60 - 75°C
Short-term max. usage temperature* ¹	75 - 80°C	120 - 140°C	HD-PE 90 - 120°C LD-PE 80 - 90°C
Suitable for application in temperature ranges below zero* ²	not suitable	suitable for limited applications* ¹	suitable for limited applications* ¹
Density g/cm ³	1.05	0.90	HD-PE 0.95 LD-PE 0.92
Flammability	inflammable	inflammable	inflammable
Ignition temperature* ¹	300 - 400°C	300 - 360°C	350 - 360°C
Humidity absorption	< 0.1%	< 0.1%	< 0.1%
General chemical resistance	PS is resistant to salt solutions, leaching solutions, non-oxidising acids as well as alkalis and alcohol. Fuel, etheric oils, strong oxidising agents and aromatic substances lead to the formation of cracks in PS.	PP is resistant to aqueous solutions of inorganic salts, acids, organic solvents up to 60°C. Alcohols, esters and ketones do not 'attack' PP either. Aromatic and halogenised carbon dioxides, oxidising substances such as concen- trated nitric acid and with higher temperature fat, oil and wax make PP swell.	PE is highly resistant to chemicals. The chemical resistance of HD-PE is generally higher than that of LD-PE. Aqueous solutions, leaching solutions, alcohol, oil as well as water and salt solutions do not 'attack' PE. Concentrated, oxidising acids such as nitric acid and halogens have a decomposing effect.
Disposal	PS is a pure hydrocarbon compound and thus environ- mentally neutral during disposal. Incineration does not yield any harmful substances.	PP is a pure hydrocarbon compound and thus environ- mentally neutral during disposal. Incineration does not yield any harmful substances.	PE is a pure hydrocarbon compound and thus environ- mentally neutral during disposal. Incineration does not yield any harmful substances.

*¹ Suitability depending on the plastic material and the nature of load applied.

*² Caution: Plastics start to become brittle at temperatures below zero. The suitability of products intended for use in these temperature ranges should be tested prior to application. These notes serve as a guideline only and do not constitute any confirmation of warranted quality.

Safety Instructions and User Guide

Caution

For safety reasons, CryoPure tubes must always be stored in the gas phase of liquid nitrogen.

During the freezing process, a vacuum is created inside the tubes. The strength of the vacuum is dependent upon the filling volume (freezing volume). When CryoPure tubes are stored in liquid nitrogen, liquid nitrogen may enter the tubes in proportion to the vacuum inside. During removal and/or thawing of the tubes the liquid nitrogen changes into the gas phase and causes an internal pressure to build. As a result, infectious material may be released or the tubes may explode. Contaminated nitrogen entering the tubes may also harm the cellular components of the sample.

Always observe appropriate safety precautions when working with CryoPure tubes:

- Store tubes in the gas phase only.
- Fill the tubes to the fill mark.
- Apply screw cap handtight. Do not over-tighten or use any tool.
- Wear protective clothing, face protection, glasses and gloves.
- Place tubes into a container (e.g. water bath) with cover during the thawing process.

Please also observe your institutional safety guidelines!

Standard Protocol for Freezing Mammalian Cells

- Rinse cells with PBS.
- Remove cells with suitable method depending on the cell type (e.g. treatment of cell layer with EDTA-, Trypsin- or EDTA-Trypsin solution).
- Stop reaction with cell culture medium containing serum.
- Count cells by means of Neubauer cell chamber.
- Centrifuge cells (5 min, 350 x g, room temperature), discard supernatant.
- Re-suspend the cell pellet in a culture medium containing serum in order to render a final cell concentration of approx. 10^7 cells/ml.
- Add 1 volume of double-concentrated freezing medium (e.g. 50% medium, 30% FCS, 20% DMSO). The number of cells should be at least 5×10^6 cells/ml.
- Fill CryoPure tubes to fill mark.
- Freeze samples in an insulating container at -80°C that ensures a cooling rate of $1^\circ\text{C}/\text{min}$. Cells should be stored at -80°C for at least 6 hours. Depending on the cell type, cells may also be viable for several days at -80°C .
- Transfer the tubes to a liquid nitrogen tank.

Standard Thawing Protocol

- Quickly remove the CryoPure tubes from the liquid nitrogen freezer and place into a 37°C water bath with cover.
- After thawing, briefly disinfect the tubes with 70% alcohol. Dry and transfer the cell suspension into a 15 ml centrifuge tube (e.g. Order No. 62.554.002).
- Add culture medium and centrifuge cells (350 x g at room temperature for 5 minutes).
- Discard the supernatant and re-suspend cells in a suitable fresh culture medium.
- Transfer to a cell culture vessel and incubate.

Chemical Resistance

The following table is to serve as a general guideline. The factors given are non-binding recommendations taken from details rendered by plastic manufacturers and from literature. As a matter of principle, it is the user's responsibility to check the resistance of the plastic material under the specific test conditions concerned, including though not limited to applications where any mixtures of chemical substances and modified temperatures are involved.

The first letter refers to the conditions at + 20°C, the second to conditions at + 60°C.

	LD-PE	HD-PE	PP	PS	PC
1,4-dioxane	G P	G G	P P	N N	N N
acetaldehyde	P N	G P	G N	N N	N N
acetic acid up to 10%	E E	E E	E E	E E	E G
acetic acid up to 50%	E E	E E	E E	G G	P P
acetone	P N	P P	E G	N N	N N
allyl alcohol	P P	E E	—	E P	—
aluminum salts	E E	E E	E E	G G	—
amino acids	E E	E E	E E	E E	E E
ammonia, conc.	E E	E E	E E	G P	N N
ammonium carbonate	E E	E E	E E	E E	P N
ammonium phosphate	E E	E E	E E	G G	—
ammonium sulphate	E E	E E	E E	G G	E G
amyl acetate	N N	P P	P P	N N	N N
amyl chloride	N N	P N	N N	N N	N N
aniline	N N	G G	G P	N N	N N
benzene	N N	P N	P N	N N	N N
benzine	P N	P P	N N	N N	P P
benzyl alcohol	G P	G G	G P	N N	P P
boric acid	E E	E E	E E	E G	E E
bromine	N N	N N	N N	N N	N N
butanol	E P	E E	E P	G G	N N
butyric acid	P N	G P	P N	N N	P N
calcium chloride	E E	E E	E E	E E	E E
calcium hydroxide	E E	E E	E E	G G	N N
calcium sulphate	E E	E E	E E	G G	E E
carbon tetrachloride	N N	P N	N N	N N	N N
chlorine in water	N N	P N	P N	N N	P N
chlorobenzene	N N	N N	N N	N N	N N
chromic acid up to 10%	E E	E E	E P	E E	G P
chromic acid up to 50%	E E	E E	G P	P P	P N
citric acid	E E	E E	E E	E E	E E
cresol	N N	P N	G P	N N	N N
cyclohexane	N N	N N	E -	N N	E -
diethyl ketone	P N	P P	G G	N N	N N
dimethylsulphoxide	E E	E E	E E	E G	N N
ethanol up to 95%	P P	—	E E	E E	N N
ethyl acetate	P N	E N	P N	N N	N N
ethyl benzene	N N	N N	P N	N N	P P
ethylene glycol	E E	E E	E E	E E	E E
ethylene oxide	P P	G P	P P	N N	P N
fluoride	E E	E E	E E	G G	—
fluorine	N N	N N	P N	N N	—
formaldehyde up to 10%	E E	E E	E E	P N	E G
formaldehyde up to 40%	G P	E G	E G	N N	P P
glacial acetic acid	P N	E P	E P	N N	N N
glycerine	E E	E E	E E	E E	E E
heating oil	P N	G P	E G	N N	G P
hexane	P P	G P	G P	N N	P N
hydrochloric acid up to 5%	E E	E E	E E	E E	E E
hydrochloric acid up to 20%	E E	E E	E E	E E	P P
hydrochloric acid up to 35%	E E	E E	E P	P P	N N
hydrocyanic acid	E E	E E	E E	G G	—
hydrofluoric acid up to 4%	E G	E E	E G	G P	G P
hydrofluoric acid up to 40%	E E	E E	E -	N N	—
hydrofluoric acid up to 48%	E G	E E	E G	N N	N N
hydrogen peroxide up to 3%	E E	E E	E E	E G	E E
hydrogen peroxide up to 30%	E P	E E	E P	E G	E E
isobutyl alcohol	E P	E E	E E	G G	E E
isopropanol	E E	E E	E E	E G	P -
isopropyl acetate	G P	E P	G P	N N	N N
kerosene	N N	N N	G P	N N	P P
lactic acid	E E	E E	E E	G G	E E
lactose	E E	E E	—	E -	E -
lead acetate	E E	E E	E E	E E	—
mercury	E E	E E	E E	E E	E -
methanoic acid	E G	E E	E N	P P	P N

	LD-PE	HD-PE	PP	PS	PC
methanol	E P	E E	E P	P N	N N
methyl ethyl ketone	P N	G G	G P	N N	N N
methyl propyl ketone	N N	N N	G P	N N	N N
methylene chloride	P P	N N	P N	N N	N N
mineral oil	P N	E P	E E	E E	G P
nitric acid up to 10%	E E	E E	E E	E E	G P
nitric acid up to 50%	P N	P N	P N	N N	G P
nitric acid up to 70%	P N	P N	N N	N N	N N
n-octane	N N	P N	P N	N N	E -
oleic acid	P N	G G	G P	G G	E E
oxalic acid, sat.	E E	E E	E E	E G	E E
ozone	N N	P N	P P	N N	N N
perchloric acid	G N	G N	G N	G P	N N
perchloroethylene	N N	N N	N N	N N	N N
phenol up to 90%	P N	G G	G P	N N	N N
phosphoric acid 10%	E E	E E	E E	E -	P N
phosphoric acid 85%	E E	E E	E G	E P	N N
phosphorous trichloride	N N	N N	G P	N N	N N
potassium acetate	E E	E E	E E	E E	N N
potassium bromide	E E	E E	E E	P -	E G
potassium carbonate	E E	E E	E E	E E	G P
potassium hydroxide, conc.	E E	E E	E E	G G	N N
potassium permanganate	E E	E E	E E	P P	N N
propylene glycol	E E	E E	E E	E E	G P
pyridine	P N	G P	P N	N N	N N
salicylic acid, sat.	E E	E E	E E	E G	E G
silver acetate	E E	E E	E E	G G	—
silver nitrate	E E	E E	E G	G P	E E
sodium carbonate	E E	E E	E E	E E	G P
sodium chloride	E E	E E	E E	E E	E E
sodium dichromate	E E	E E	E E	E E	—
sodium hydroxide up to 1%	E E	E E	E E	G G	—
sodium hydroxide up to 50%	E E	E E	E E	G G	N N
sodium hypochlorite up to 15%	—	E E	E -	—	—
sodium nitrate	E E	E E	E E	E E	P N
sodium sulphate	E E	E E	E E	E E	E -
sucrose	E E	E E	E E	E E	—
sulphuric acid up to 6%	E E	E E	E E	E E	E E
sulphuric acid up to 20%	E E	E E	E E	E G	E G
sulphuric acid up to 60%	E G	E E	E G	G N	P N
sulphuric acid up to 98%	P N	P N	P N	N N	N N
tannic acid	E E	E E	E E	G G	N N
tetrahydrofurane	N N	N N	P N	N N	N N
toluene	N N	P N	P N	N N	N N
trichloroacetic acid	P N	G P	P N	N N	N -
trichlorethane	N N	P N	N N	N N	N N
turpentine	N N	N N	N N	N N	—
urea, sat.	E E	E E	E E	E G	N N
xylene	N N	N N	N N	N N	N N
zinc chloride	E E	E E	E E	E E	E E

Explanations

E = excellent

This plastic is totally resistant to that substance

G = good

Influence of that substance for an extended period of time does not cause any or only small defects.

P = partially resistant

If exposed to constant influence, the plastic might possibly lead to hairline cracks and a reduced mechanical strength or discolouration.

N = non-resistant

Plastics are not suitable for use in combination with this substance. Application is not recommended.

—

There are no tests available.



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