Microbiology

Sample collection, cultivation, processing

SARSTEDT

SARSTEDT International

Your partner in medicine and science worldwide

SARSTEDT

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SARSTEDT

Swab

SARSTEDT swabs are used to easily collect and safely transport bacteriological and cytological samples. The swabs are suitable for use both on intact skin, in natural body orifices and for wound swabs. They can also be used in the food industry within the scope of hygiene controls and for sample collection from various surfaces.

In addition to short and long swab designs, swabs made from plastic or aluminium and versions with and without a transport medium are also available. When transporting over long distances, or when sending sensitive microorganisms, we recommend the use of swabs with transport medium. The addition of charcoal to the medium in some variants is used to neutralize bacterial toxins and other inhibitory substances.

Neutral swab, sterile

Order no	Tube diameter/length * in mm	Stem material/length in mm	Swab material	Packaging
80.625	16.5/108	Polystyrene/83	Viscose	500/bag • 500/case
80.1301	12/175	Polystyrene/133	Viscose	100/inner box • 1000/case
80.1303	12/175	Aluminium/134	Viscose	100/inner box • 1000/case

Swabs with transport medium

- Transport tubes and separate swabs, individually wrapped, sterile, in practical peel-pack packaging
- Suitable for aerobes and anaerobes
- Increased product stability and durability due to inner packaging aerated with nitrogen

Swab with Amies gel transport medium, sterile

Order no	Tube diameter/length * in mm	Stem material/length in mm	Swab material	Packaging
80.1361	12/175	Polystyrene/133	Viscose	50/inner pack • 500/case
80.1363	12/175	Aluminium/134	Viscose	50/inner pack • 500/case

Swab with Amies gel medium and charcoal, sterile

Order no	Tube diameter/length * in mm	Stem material/length in mm	Swab material	Packaging
80.1362	12/175	Polystyrene/133	Viscose	50/inner pack • 500/case
80.1366	12/175	Aluminium/134	Viscose	50/inner pack • 500/case

**incl. Cap*

Swabs with transport medium not available in USA.

SARSTEDT

Urine diagnostics

SARSTEDT offers two systems for hygienic urine collection.

The Urine Monovette® is a safe, needle-free system for urine transfer using an aspiration technique. After a suction tip is attached, the Urine Monovette® piston is pulled back to collect urine from any open container.

The V-Monovette® Urine is a vacuum system for closed, hygienic, and convenient urine transfer. The urine cup stays closed during transfer to prevent contamination.

Both systems are available with a boric acid preparation that stabilizes microorganisms in the urine for up to 48 hours when stored at room temperature.

Urine culture tubes

Order no	Design	Volume in ml	Length/diameter in mm	Packaging Bag/case
10.253.020	Urine Monovette® with stabilizer, individually packaged, sterile	10	102/15	100/500
10.251	Suction tip for Urine Monovette®	-	78/8	100/500
11.2253.001	V-Monovette® Urine with stabilizer, round base	4	75/13	50/500
11.2453.001	V-Monovette® Urine with stabilizer, round base	10	100/15	50/500

Urine cups

Order no	Design	Volume in ml	Length/diameter in mm	Packaging Bag/case
75.562.105	Cup with assembled screw cap and safety label, sterile	100	73/62	5/200
75.562.400	Cup with assembled screw cap with integrated transfer device, safety label, sterile	100	73/62	5/200

Other products for urine analysis can be found in our brochure "Urine analysis", and online at www.sarstedt.com.

SARSTEDT

Stool diagnostics

Stool tubes from SARSTEDT allow for clean and easy stool collection. Various tube sizes and sampling scoops are available, including an option for a defined stool volume of approximately 1 gram.

The range includes sterile, labeled, and opaque (for light protection) options.

Custom labeled stool tubes are available upon request with a minimum order quantity of 20,000 pieces.

Stool tubes with screw cap

Order no	Tube length/diameter in mm	Tube material	Design	Packaging pieces/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

Stool tubes with flat base and push caps

Order no	Tube length/diameter in mm	Tube material	Design	Packaging pieces/case
80.621	75/23.5	PS	Sterile	250
80.620	75/23.5	PS	Non-sterile	500

Tubes with screw cap to collect a defined stool sample

This stool tube allows for clean and simple collection of a defined stool sample of 1 ml, or roughly 1 g.

The stool scoop collects 1 ml, and any excess is removed using the spatula provided. The scoop is securely fixed into the cap and sits halfway down the tube when closed, allowing centrifugation and supernatant separation without disturbance.

Example of use:

Immunological procedure to detect occult blood

A suspension can be created by adding 2 ml distilled water to the stool tube and mixing.
After centrifugation, the supernatant can be used for an immunological procedure to analyze proteins such as hemoglobin and albumin.

Order no	Tube length/ diameter in mm	Tube material	Design	Packaging pieces/case
80.623.022	101/16.5	PP	Stool tube, inc. spatula	1,000

25 ml and 70 ml stool containers

The 25 and 70 ml containers are made of rigid white polypropylene. There is an integrated stool scoop in the brown screw cap. The tubes are primarily used for collecting stool samples for pathology, but are also suitable for grain and soil samples.

Order no	Length/diameter in mm	Tube material	Volume in ml	Design	Packaging pieces/case
80.9924.014	54/28	PP	25	White with brown cap and label	500
80.9924.027	55/44	PP	70	White with brown cap and label	500

Suitable transport systems can be found in our product catalog under the heading "Sample transport & disposal".

Transport systems

For the transport of urine and stool containers, we offer a complete packaging system of transport devices and shipping boxes. The system has been tested and approved by the BAM (Bundesanstalt für Materialforschung und -prüfung, Federal Institute for Materials Research and Testing) and corresponds to the requirements of the packaging regulation P650 for substance class UN 3373 of the ADR, RID, ICAO and IATA. This regulation demands transport packaging consisting of 3 components: the primary container, the secondary container packaging and rigid outer packaging.

Many of our primary containers (e.g. stool tubes, Urine Monovette®) are able, as per ADR, to withstand an internal pressure difference of at least 95 kPa (0.95 bar) without leakage for safe and secure transport of specimens in compliance with guidelines.

Detailed information can be found in our brochure "Transport and shipping systems" and online at www.sarstedt.com.

Rack systems for stool and urine tubes

SARSTEDT offers four different racks to accommodate urine and stool sample tubes from 17.2 to 26 mm in diameter.

The racks are made from high-quality, shatter-proof, and durable material that can be autoclaved* at 121°C. In addition, they are simple to dismantle for cleaning.

There is also a version available with a sidepocket for paperwork and an amber cover to protect opened tubes from external influences (e.g. UV radiation).

Information on other ranges of tube racks can be found either in our product catalog or online at www.sarstedt.com.

'20 series' racks

Order no	Well diameter in mm			External dimensions L x W x H in mm	Suitable for
	Top	Middle	Bottom		
93.841.100	26	26	10	327 x 72 x 60	Tubes up to 25 mm diameter
93.893.100	21.5	26	10	327 x 72 x 60	Tubes up to 21 mm diameter
93.844.100	17.2	17.2	8.5	257 x 62 x 55	Tubes up to 17 mm diameter, all S-Monovettes
93.1097.100	17.2	17.2	8.5	257 x 74 x 55	Tubes up to 17 mm diameter, all S-Monovettes. This rack features a side pocket for paperwork.
93.1102.001	Brown transparent cover			256 x 62 x 72	Use with rack no 93.1097.100; the cover protects opened tubes from external influences

** Important autoclaving information*

Products made of PP and PC can be autoclaved up to 121°C without any appreciable loss of mechanical properties.
The user must check whether other product characteristics are affected in terms of the desired use.

SARSTEDT

Petri dishes for bacteriology

Petri dishes from SARSTEDT are produced from crystal clear polystyrene and are heat resistant to approx. 80°C for applications using hot agar. They are available in 35, 60, 92 and 150 mm diameter options. Their highly consistent dimensional stability ensures stackability and suitability with automated filling machines. Variants with ventilation cams offer improved gas exchange, and variants without ventilation cams limit evaporation and thus enable longer incubation times.
Colored dishes allow a variety of coding options.

A Petri dish divided into two separate compartments is designed for parallel tests under comparable conditions or to use two different agar systems. In addition to round designs, a square Petri dish is also available for more efficient storage.

- Crystal clear polystyrene (heat-resistant to approx. 80°C)
- Easily stacked
- With and without ventilation cams
- Radiation-sterilized options available

Petri dishes, round

Order no	Diameter/height in mm	Ventilation cams	Packaging: pieces per sleeve / case
82.1184.500	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
82.1194.500	60/15 (gamma-sterile)	with	20/500
82.1135.500	35/10 (gamma-sterile)	with	20/500

Petri dish, round, with two compartments

Order no	Diameter/height in mm	Ventilation cams	Packaging: pieces per sleeve / case
82.1195	92/16	with	20/480

Petri dish, square

Order no	L x W x H in mm	Ventilation cams	Packaging: pieces per sleeve / case
82.9923.422	100 x 100 x 20 gamma-sterile	without	4/160

SARSTEDT

Colored Petri dishes with ventilation cams

Order no	Diameter/height in mm	Color	Packaging: pieces per sleeve / 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

Microbial air samplers

The DESAGA GS 100 Microbial Air Sampler collects ambient air samples for microbiological testing. Based on the Anderson Airsampler Principle, it draws in the ambient air over a nozzle plate. A microprocessor controls and inspects the sample collection. The thermal mass flow meter accurately regulates the flow. The design of the inlet results in an intake speed of approx. 0.4 m/sec, whereby the air flow is set to 100 l/min in the factory. Particles and germs are deposited onto a standard Petri dish with nutrient medium for direct cultivation without passing through filters. The collection head can, of course, be autoclaved and the housing can be cleaned using conventional disinfectants.

Before measurement, the parameter values are established via the keypad. The non-volatile memory includes five different programs for sampling with varying feed volume and start delay. This data can be called up at any time, inspected and changed via the 2-line LCD display.

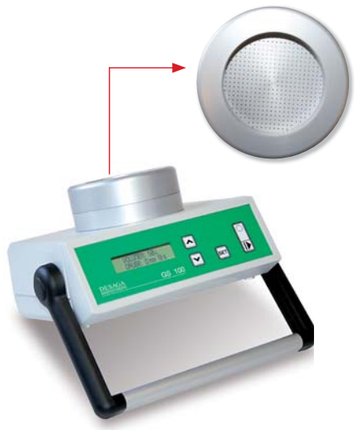
For mobile use, a battery provides power for approx. 5-6 hours. The included mains adapter can be used to recharge the battery and and for direct operation from a wall outlet.

Order no	Design	Packaging/case
90.170.370	GS 100, microbial sampler, 230 V incl. collection head	1
92.170.375	Collection head for GS100, aluminium, 400 holes	1
92.170.390	Transport case for GS 100	1

Instruction manual on request.

Technical data

Measuring principle:	Thermal mass flow meter (Anderson Airsampler)
Measurement programs:	5 collection methods, storable
Intake speed:	0.4 m/sec
Feed rate:	100 l/min
Feed volume:	10 – 9,990 l
Start delay:	0:00 – 59:59 min
Suitable Petri dishes:	Standard Petri dishes, diameter 90 mm (e.g. item no 82.1473)
Dimensions (W x D x H):	200 x 170 x 125 mm
Weight:	2.3 kg
Power supply:	Battery pack, operating capacity 5-6 hours, 240/15 Volt mains-powered operation with charging adapter 20-80% rel. humidity
Working area:	0 – +50°C



Inoculation loops, needles and inoculation spreaders

SARSTEDT disposable inoculation loops, needles and inoculation spreaders are convenient to use and increase safety in the workplace. They reduce the risk of cross contamination and save time by eliminating heat or flame sterilization between two inoculations and preventing the spread of pathogenic aerosols. Flexible inoculation loops facilitate inoculation in liquid medium. Two versions are available, 1 µl and 10 µl, which are color-coded to make them easier to differentiate. The inoculation needle can be used for seeding or withdrawing individual colonies. We recommend the use of the inoculation spreaders to place large volumes on culture media.

- Time-saving, particularly when processing large serial tests
- Convenient handling
- Safe, single-use products
- Gamma-sterile

Gamma-sterile inoculation loops, needles and inoculation spreaders made of polystyrene

Order no	Design	Color	Packaging
86.1562.010	10 µl loop	Blue	10/peel-pack, 1000/case
86.1562.050	10 µl loop	Blue	48/peel-pack, 1920/case
86.1567.010	1 µl loop	White	10/peel-pack, 1000/case
86.1567.050	1 µl loop	White	48/peel-pack, 1920/case
86.1568.010	Needle	Orange	10/peel-pack, 1000/case
86.1568.050	Needle	Orange	50/peel-pack, 2000/case
86.1569.001	Inoculation spreader	Blue	1/bag, 500/case
86.1569.005	Inoculation spreader	Blue	4/peel-pack, 500/case

POS 720/2 Petri dish organization system

POS 720/2 and PTS are important milestones on the route towards the automation of microbiological laboratories with medium to high sample volumes.

Up to 700 Petri dishes per hour are labeled, stacked in sets in a fully automatic process and transported on the delivery belt. Labeling and reading errors in microbiology laboratories are reduced and processing procedures become more transparent, improving quality and competitiveness.

- Labor-saving and easy to operate
- Reliable provision of all required Petri dishes
- Accurate machine-readable labeling of dishes with barcode and plain text
- Reliable identification of dishes throughout the process
- Additional labels for special media and bouillons available at the streaking station

POS 720/2 Petri dish organization system	
Device	POS 720/2- PTS
Supply	
Electrical connection	230 V ± 10%/50-60 Hz/400 VA
Ambient conditions	
Permissible ambient temperature	+15°C – +35°C
Maximum relative humidity	80%, non-condensing
Dimensions	
Width x depth x height	1700 mm x 1100 mm x 1800 mm (height with installed signal system)
Weight	200 kg without Petri dishes
Accessories	
Label printer	Direct thermal printer with dispensing device and automatic winding of the carrier material
Labels	Roll labels Supply: 10,000 items/roll Format: 78 mm x 10 mm Material: Thermo Premium Top (other material on request) Adhesive: Permanent (other adhesive on request)
Performance data	
Suitable Petri dishes	All brands (summary on request)
Labeling	Barcode and clear text, layout customer-specific
Plate throughput	Up to 700 plates/hour
Data processing connection	Network connection to the laboratory's LAN RS232/V24

Automatic dish handling

- Sorting
- Labeling
- Stacking by specimen type
- Transport to workstation

Dish with barcode and customized label

The dish stacker produces one stack per sample

Printer and applicator produce labels and apply them to the base, or to the side of the dishes

Signal light for status display and for safe access to the POS 720

Turntable with 15 magazines for 40 dishes each

Conveyor track configuration is customizable to the lab space

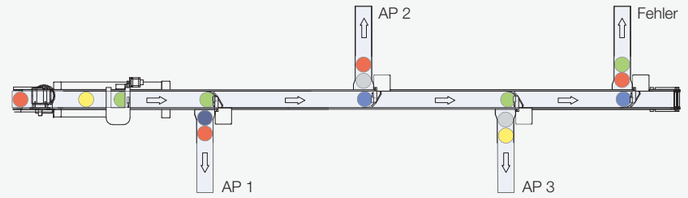
Dish stack on its way to a workstation

PTS Petri Dish Transfer System

The Petri Dish Transfer System PTS transports the dish stacks pre-sorted by the POS 720 to the individual workstations. The free-standing system provides customized solutions and is adjustable in height within a defined range. Laboratory tables and benches can be conveniently positioned close to the PTS.

Exit points on the track ensure that stacks are correctly assigned to the relevant workstations. Dish stacks which cannot be assigned during scanning are directed to an error area.

Layout example for PTS with three workstations (AP1-AP3) and an error area



PTS Petri Dish Transfer System	
Device	PTS
Supply	
Electrical connection	230 V ± 10%/50-60 Hz/322 VA
Ambient conditions	
Permissible ambient temperature	+15°C – +35°C
Maximum relative humidity	80%, non-condensing
Dimensions	
Width x depth x height	Vary depending on customer-specific design
Weight	Vary depending on customer-specific design

DishRack for Petri dishes

DishRack for optimum handling

Stacks of Petri dishes are easily knocked over. With the DishRack, up to 88 dishes can be secured at once and readily handled. Each DishRack accommodates four stacks of standard Petri dishes with 92 and 100 mm diameter. Once loaded, individual dishes can be removed and replaced without rearranging the entire stack. DishRacks are convenient for use at workstations, for transportation, and for storage in incubators.

Durable

Two flexible silicone strips securely hold dishes in the rack, even during transporation or exposure to heavy shaking and movement. The high-quality, temperature-resistant and shatter-proof plastic of the DishRack is largely resistant to acids and alkalis.

Systematic organization

The DishRack readily contains, transports, and stores Petri dishes in an orderly manner to improve and organize individual workflow processes. There are five different colors and interchangeable labeling strips for simple, visible customization. For example, the green DishRack might be used for all urine specimens and the yellow DishRack may be designated for fungal stool cultures.

DishRack 50 · for up to 52 dishes

Order no	Color	Height in mm	Packaging pcs./case
93.1647	Neutral	240	1
93.1647.001	Red	240	1
93.1647.002	Yellow	240	1
93.1647.003	Blue	240	1
93.1647.004	Green	240	1

DishRack 80 · for up to 88 dishes

Order no	Color	Height in mm	Packaging pcs./case
93.1646	Neutral	360	1
93.1646.001	Red	360	1
93.1646.002	Yellow	360	1
93.1646.003	Blue	360	1
93.1646.004	Green	360	1

Deep Well MegaBlock® 96 Well

The Deep Well MegaBlock® meets all important requirements for processing sample volumes up to 2.2 ml in automated systems or for retention sample storage.

- Alphanumeric well labels
- Each well 100% leak-proof tested
- Free of human DNA, DNase/RNase and pyrogens/endotoxins
- Ideal for long-term storage of samples
- Raised well rims (0.5 and 1.2 ml versions)
- Compatible with heat sealing systems
- Sealing tapes and mats are available for closure

MegaBlock® 0.5/1.2/2.2 ml, PP

- For the storage of pharmaceutical samples
- For DNA isolation, enzyme assays and cell culture applications
- Solvent-resistant, including against DMSO
- Autoclavable*

MegaBlock® 1.2 ml, transparent PS

- Ideal for long-term storage of blood samples
- Made of highly transparent and crystal clear polystyrene for easy visual inspection of the wells

MegaBlock®

Order number	Design	Volume/material		Optics	Packaging
82.1969.002	Round, raised wells	0.5 ml	PP	Transparent	56/case
82.1970.002	Round, raised wells	1.2 ml	PS	highly transparent	32/case
82.1971.002	Round, raised wells	1.2 ml	PP	Transparent	32/case
82.1972.002	Square wells, round base	2.2 ml	PP	Transparent	32/case

Mats and sealing tapes for MegaBlock®

Order number	Design	Packaging
95.1990.002	Mat for MegaBlock®, pierceable, suitable for round wells	10/bag · 50/inner box · 250/case
95.1991.002	Mat for 2.2 ml MegaBlock®, suitable for 82.1972.002	10/bag · 50/inner box · 250/case
82.1586	Acetol sealing tape, transparent	100 tapes/inner box

**Products made of PP can be autoclaved up to 121°C without any appreciable loss of mechanical properties. The user must check whether other product characteristics are affected in terms of the desired use.*

Cuvettes

Since the 1970s SARSTEDT has been a well-known manufacturer of high-quality disposable cuvettes made from polystyrene (PS) and acrylic (PMMA). The product range includes 2x optical micro cuvettes, semi-micro cuvettes, and 4x optical cuvettes for 90° angle fluorescence measurements. SARSTEDT cuvettes are packaged in protective Styrofoam boxes according to mold number for consistency and to avoid any variation in absorbance values.

Semi-micro cuvette 10x4 mm, light path: 10 mm, 2 optical sides

Order no	Height in mm	Material	Packaging	Packaging pcs./case
67.742	45	Polystyrene	100/Styrofoam box, packed by mould cavity number	2000
67.746	45	Polystyrene	Filled to 500/bag	2000
67.740	45	Acrylic (PMMA)	100/Styrofoam box, packed by mould cavity number	2000

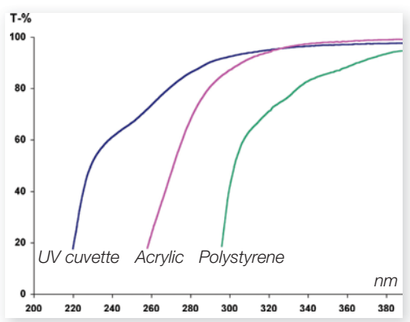
Cuvette 10x10 mm, light path: 10 mm, 2 optical sides

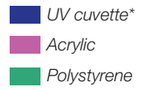
Order no	Height in mm	Material	Packaging	Packaging pcs./case
67.741	45	Polystyrene	100/Styrofoam box, packed by mold cavity number	2000
67.745	45	Polystyrene	500/bag	2000
67.738	45	Acrylic (PMMA)	100/Styrofoam box, packed by mold cavity number	2000

Cuvette for fluorescence measurements, light path: 10 mm, all 4 optical sides

Order no	Height in mm	Material	Packaging	Packaging pcs./case
67.754	45	Polystyrene	100/Styrofoam box, packed by mold cavity number	2000
67.755	45	Acrylic (PMMA)	100/Styrofoam box, packed by mold cavity number	2000

Transmission depending on the wavelength





Wavelength (nm)	Transmission (T) in %		
	UV	Acrylic	Polystyrene
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:
The graph and the table display the precise light transmission of the cuvette based on the different wavelengths and the different plastic types. Cuvettes each filled with distilled, clear water. Optical path length: 10 mm

**Detailed information on the UV cuvettes can be found both in our complete catalogue, in our brochure 362 "PCR and molecular biology" and on the homepage at www.sarstedt.com.*

Cuvette 10x10 mm with round opening, optical path: 10 mm, 2 optical sides

Order no	Height in mm	Material	Packaging	Packaging pcs./case
67.743	96	Polystyrene	100/Styrofoam box, packed by mold cavity number	1,000
67.749	55	Polystyrene	100/Styrofoam box, packed by mold cavity number	2000

Push caps for cuvettes with round opening

Order no	Suitable for cuvette	Packaging pcs. per bag/case
65.803.300	Order no.: 67.743	1,000/5,000
65.793.300	Order no.: 67.749	1,000/5,000

Round cuvette for LKB analyzer (used specifically for sample preparation)

Order no	Height/diameter in mm	Material	Packaging	Packaging pcs./case
68.752	51/12	Polypropylene	1,000/bag	5000

Serological pipettes

Serological pipettes from SARSTEDT are produced from crystal clear polystyrene for a variety of applications. Pipettes feature positive and reverse graduations as well as negative graduations that increase the stated pipetting volume. The optimized mouthpiece of the pipette offers a universal, drip-free fit in conventional pipetting aids. Universal color code markings on each pipette and packaging enable quick and easy volume identification. Serological pipettes packaged in individual peel pouches are sterile and certified pyrogen-free/endotoxin-free and non-cytotoxic.

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

Order no	Total volume/graduation		Design	Color code	Packaging pcs per bag/case
86.1251.001*	1 ml	1/100 ml	Plugged, ind. wrapped sterile		100/1,000
86.1251.025	1 ml	1/100 ml	Plugged, sterile, in 25 units		25/1,000
86.1252.001*	2 ml	1/100 ml	Plugged, ind. wrapped sterile		100/1,000
86.1252.025	2 ml	1/100 ml	Plugged, sterile, in 25 units		25/1,000
86.1253.001*	5 ml	1/10 ml	Plugged, ind. wrapped sterile		50/500
86.1253.025	5 ml	1/10 ml	Plugged, sterile, in 25 units		25/500
86.1254.001*	10 ml	1/10 ml	Plugged, ind. wrapped sterile		50/500
86.1254.025	10 ml	1/10 ml	Plugged, sterile, in 25 units		25/500
86.1685.001*	25 ml	2/10 ml	Plugged, ind. wrapped sterile		25/200
86.1685.020	25 ml	2/10 ml	Plugged, sterile, in 20 units		20/200
86.1256.001*	50 ml	1/2 ml	Plugged, ind. wrapped sterile		30/90

**Pyrogen-free/endotoxin-free and not cytotoxic*

Dilution pipette 1.1 ml, with and without tip

- For the production of dilutions for bacteriological investigations, e.g. in food laboratories

Order no	Total volume/graduation	Design	Packaging pcs per bag/case
86.1686.225	1.1 ml/0.5 – 1.0 – 1.1	Without tip, plugged, sterile	25/1,000
86.1686.025	1.1 ml/0.5 – 1.0 – 1.1	With tip, plugged, sterile	25/1,000

Aspiration pipette, polystyrene

- For aspirating liquids using a vacuum pump
- Individually packaged in paper/plastic peel sterile packaging
- Pyrogen-free/endotoxin-free and non-cytotoxic
- Without print, without cotton plugs

Ordering information, aspiration pipette

Order no	Total volume/graduation	Design	Packaging pcs per bag/case
86.1252.011	2 ml/without graduation	Without plug and print, ind. wrapped, sterile	100/1,000

Pipettes 5 ml and 10 ml without tip, e.g. for homogenized media

Order no	Total volume/graduation		Design	Packaging pcs per bag/case
86.1687.010	5 ml	1/10 ml	Without tip, plugged, sterile	10/500
86.1688.010	10 ml	1/10 ml	Without tip, plugged, sterile	10/500

Micro test plates

SARSTEDT micro test plate allow a large number of tests to be conducted in a small footprint and with very low sample volumes, such as antibiotic test series or biochemical investigations to characterize and differentiate bacteria.

The 96-well format plates are made of high-quality, crystal clear polystyrene in the ANSI/SLAS standard format (formerly SBS). The micro test plates therefore provide consistent optical quality and fit in all common dispensers, washers and readers. There are three base shapes (flat, round and conical) available for different applications. Wells are conveniently labeled with alphanumeric identification markings, and the lot number and expiration date are provided on each plate for improved traceability.

- ANSI/SLAS standard (formerly SBS)
- Alphanumeric well identification
- Lot number and expiration date on each plate

Order no	Description	Base shape	Lid	Max. volume (ml)	Packaging
82.1581	Micro test plate		–	0.39	25/bag 100/case
82.1581.001	Micro test plate, sterile		✔	0.39	1/blister 50/case
82.1582	Micro test plate		–	0.31	25/bag 100/case
82.1582.001	Micro test plate, sterile		✔	0.31	1/blister 50/case
82.1583	Micro test plate		–	0.29	25/bag 100/case
82.1583.001	Micro test plate, sterile		✔	0.29	1/blister 50/case
82.1584	Polystyrene lid				25/bag 100/case

Disposal bags

SARSTEDT disposal bags are used to collect and dispose of used laboratory and hospital consumables. The robust 50 um thick polypropylene bags are resistant to tears and punctures and have a stable, wide base seam. Due to the risk of injury, however, sharp or pointed objects should never be placed in the disposal bags.

The SARSTEDT disposal bags are suitable for steam sterilization in autoclaves at temperatures up to 134°C. In order to achieve full steam sterilization, the disposal bag must always be autoclaved without being sealed.

In addition to various sizes, colored bags and variants with 'Bio Hazard' print are also available.

- Strong, durable material (50 µm) for reliability and safety
- Reduction of waste volume
- Can be autoclaved at temperatures up to 134°C

Order no	Opening dimension x length (mm)	Capacity**	Bag color		Bag print		Print color		Packaging pcs per bag/case
			Clear	Yellow	Yes	No	Red	Blue	
86.1197*	200 x 300	2 liters	•			•			100/1,000
86.1198	300 x 500	7 liters	•			•			50/500
86.1201	300 x 500	7 liters	•		•		•		50/500
86.1201.103	300 x 500	7 liters		•	•			•	50/500
86.1199	400 x 780	24 liters	•			•			50/250
86.1202	400 x 780	24 liters	•		•		•		50/250
86.1202.103	400 x 780	24 liters		•	•			•	50/250
86.1200	600 x 780	40 liters	•			•			50/250
86.1203	600 x 780	40 liters	•		•		•		50/250
86.1203.103	600 x 780	40 liters		•	•			•	50/250
86.1204	700 x 1,120	80 liters	•			•			50/150
86.1206.103	700 x 1,120	80 liters		•	•			•	50/150

** Disposal bag for table racks in practical dispenser box (100 bags/dispenser pack).*
*** Can still be sealed after autoclaving.*

Table rack for disposal bag

Steel wire rack coated with epoxy resin

Order no.: 95.1297

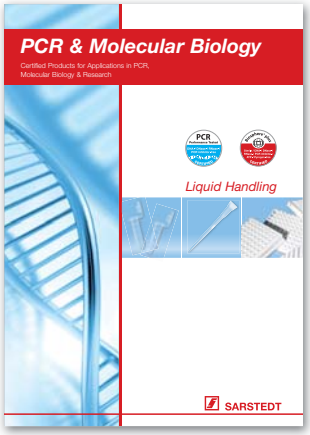
1 rack including a dispenser box with bags (order no. 86.1197)

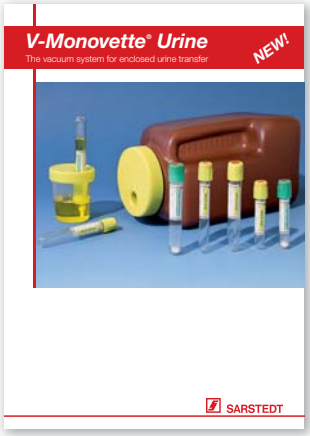
Notes

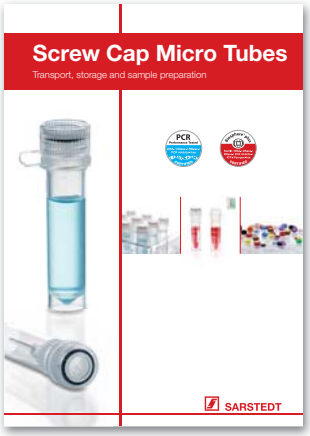
Notes

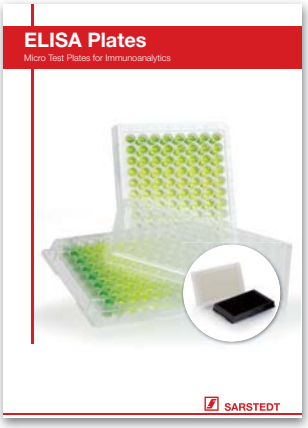
If you have any questions, we'll be happy to help you.

Visit our website: www.sarstedt.com









SARSTEDT

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