

# Microbiology

Specimen collection, cultivation, processing



# To make your workflow excellent.



# Effective tools with proven quality for precise microbiology processes

Viruses, bacteria, parasites - there are many living organisms that are invisible to the naked eye, but which are nevertheless of major significance for human and animal health. Either because they trigger diseases, or because they are beneficial to health, such as the microbiome in the gut. This is precisely why microbiology is so important - for medicine, biosciences, pharmaceuticals and even the food industry.

Microbiology is divided into two core areas: pure and applied microbiology. Whilst the focus of pure microbiology is the study of various microorganisms, applied microbiology is primarily concerned with researching and possibly even

harnessing the interactions of microorganisms with the environment or other living organisms. Both core areas are based on adequate access to the different microorganisms.

SARSTEDT offers a range of high-quality tools for both core areas - for all tasks, from sampling to cultivation and analysis. Our solutions are based on our extensive experience in medicine and research and fulfil the highest demands in terms of quality, purity and convenience.

Discover our extensive range and benefit from our expertise in the field of microbiology.



# Sample collection systems

## Swabs

SARSTEDT swabs are used to easily collect and safely transport bacteriological and cytological specimens. The swabs are suitable for use on intact skin, in natural orifices and for swabbing wounds. They can also be used in the food industry for hygiene checks and to collect samples 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. For long distance transportation or to send sensitive microorganisms, we recommend the use of swabs with a transport medium. The addition of charcoal to the medium in some variants is used to neutralise bacterial toxins and other inhibitory substances.

### Neutral swab, sterile

Tube diameter/length* in mm	Stem material/length in mm	Swab material	Packaging (SP/IB/OC)	Order no.
16.5 / 108	Polystyrene / 83	Viscose	500 / 500 / 500	80.625
12 / 175	Polystyrene / 133	Viscose	100 / 100 / 1,000	80.1301
12 / 175	Aluminium / 134	Viscose	100 / 100 / 1,000	80.1303

### Swabs with transport medium

- Transport tubes and separate swabs, individually packaged, sterile, in practical peel-pack
- Suitable for aerobes and anaerobes
- Improved product stability and durability thanks to nitrogen-aerated inner packaging

### Swab with Amies gel transport medium, sterile

Tube diameter/length* in mm	Stem material/length in mm	Swab material	Packaging (SP/IB/OC)	Order no.
12 / 175	Polystyrene / 133	Viscose	1 / 50 / 500	80.1361
12 / 175	Aluminium / 134	Viscose	1 / 50 / 500	80.1363

### Swab with Amies gel medium and charcoal, sterile

Tube diameter/length* in mm	Stem material/length in mm	Swab material	Packaging (SP/IB/OC)	Order no.
12 / 175	Polystyrene / 133	Viscose	1 / 50 / 500	80,1362
12 / 175	Aluminium / 134	Viscose	1 / 50 / 500	80.1366

\*incl. cap



## Urine diagnostics

The Urine Monovette® with boric acid stabiliser reliably stabilises microorganisms contained in urine at room temperature for 48 hours after sample collection. The Urine Monovette® enables hygienic, needle-free specimen collection from urine collection cups or urine drainage systems.

Together with the NFT urine cup or the NFT urine collection container, hygienic and safe working conditions are guaranteed during the entire sample collection process. The transfer is completely closed and needle-free. If the sample volume is particularly low, the sample can instead be transferred to the Urine Monovette® without a needle using the enclosed collection tip.

### Urine culture

Description	Volume in ml	Length/ diameter mm	Version	Packaging (IB/OC)	Order no.
Urine Monovette® Boric acid 3.2 ml, 64 pieces/bag	3.2 ml	75 / 13	Paper label, writable	64 / 512	10.256.001
Urine Monovette® Boric acid 3.2 ml, 1 piece/blister	3.2 ml	75 / 13	Paper label, writable, individually blister packed	100 / 500	10.256.021
Urine Monovette® Boric acid 8.5 ml, 64 pieces/bag	8.5 ml	92 / 15	Paper label, writable	64 / 512	10.260.001
Urine Monovette® Boric acid 8.5 ml, 1 piece/blister	8.5 ml	92 / 15	Paper label, writable, individually blister packed	100 / 500	10.260.021
Urine tubes with stabiliser	25 ml	90 / 25	Paper label, writable	500 / 500	51.595.820

### Urine collection cup

Description	Volume in ml	Length/ diameter mm	Version	Packaging (IB/OC)	Order no.
NFT urine container	100	72 / 62	Lid mounted, with integrated needle-free transfer unit, with sterility guarantee via safety label	5 / 200	75.562.900
Urine collection cup	100	72 / 62	Lid mounted, with integrated needle-free transfer unit, with sterility guarantee via safety label	5 / 200	75.562.105

Further products for urine analysis can be found in brochure 219 "Urine analysis" and on our website at [www.sarstedt.com](http://www.sarstedt.com).



# Sample collection systems

## Stool diagnostics

Stool tubes from SARSTEDT allow for clean and easy stool collection. A wide range of tube sizes and stool sampling scoops are available, also allowing for the collection of defined stool volumes of 1 ml, or approximately 1 g.

Sterile, labelled or light-protected containers are available as an option.

**Custom-labelled stool tubes are available on request with a minimum order quantity of 20,000 pieces.**

### Stool tubes with screw cap

Tube length/diameter in mm	Tube material	Version	Packaging (SP/IB/OC)	Order no.
107 / 25	PP	Sterile	50 / 50 / 250	80.622
107 / 25	PP	Non-sterile	250 / 250 / 500	80.622.111
101 / 16.5	PP	Sterile	500 / 500 / 500	80.623
101 / 16.5	PP	Non-sterile	500 / 500 / 500	80.623.111
76 / 20	PP	Sterile	100 / 100 / 500	80.734.001
76 / 20	PP	Non-sterile	500 / 500 / 500	80.734
76 / 20	PP	Sterile, with label	500 / 500 / 500	80.734.311
76 / 20	PP	Non-sterile, with label	500 / 500 / 500	80.734.301
76 / 20	PP, white	Non-sterile, with label	500 / 500 / 500	80.734.401

### Stool tubes with flat base and push caps

Tube length/diameter in mm	Tube material	Version	Packaging (SP/IB/OC)	Order no.
75 / 23.5	PS	Sterile	50 / 50 / 250	80.621
75 / 23.5	PS	Non-sterile	50 / 50 / 500	80.620



## Tube with screw cap for collection of a defined stool sample

This stool tube allows for clean and simple collection of a defined stool sample of 1 ml, or approximately 1 g.  
The stool scoop holds 1 ml and any excess is removed using the spatula provided. The scoop is fixed securely into the cap and reaches to around the middle of the tube. This design allows for centrifugation and collection of the excess without dispersal when the tube is opened.

### Example of use

#### Immunological procedure for occult blood detection

Via the addition of 2 ml distilled water, for example, into the stool tube, simple mixing will produce a suspension. After centrifugation of the tube, the excess can be used for immunological procedures to analyse proteins, e.g. human haemoglobin and albumin.



Version	Tube length/diameter in mm	Tube material	Packaging (SP/IB/OC)	Order no.
Stool tube incl. spatula	101 / 16.5	PP	250 / 250 / 1,000	80.623.022

### 25 ml and 70 ml stool tubes

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

Version	Length/diameter in mm	Tube material	Volume in ml	Packaging (SP/IB/OC)	Order no.
White with brown cap and label	54 / 28	PP	25	50 / 50 / 500	80.9924.014
White with brown cap and label	55 / 44	PP	70	250 / 250 / 500	80.9924.027

Suitable transport systems can be found in the main catalogue in the Sample Transport & Disposal section.



# Transport and stand systems

## Transport systems

For the transportation of urine and stool samples, we offer a complete packaging system of transport containers/bottles 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 fulfils the requirements of packaging regulation P650 for substance class UN3373 of ADR, RID, ICAO and IATA. This regulation requires that transport packaging consist of three

Detailed information can be found in brochure 458 "Transport and shipping systems" and on our website at [www.sarstedt.com](http://www.sarstedt.com).

components: primary receptacle, secondary receptacle packaging and rigid outer packaging.

Many of our primary receptacles (e.g. stool tubes, Urine Monovette®) are able, as per ADR, to withstand an internal pressure causing a pressure difference of at least 95 kPa (0.95 bar) without a drop in fill level and therefore offer an optimum solution for shipping samples in line with the guidelines.

## Stand systems for stool and urine samples

For the space-saving, clear and orderly storage of stool and urine samples, four different stands are available with a diameter ranging from 17.2 to 26 mm.

The high-quality and shatterproof material of the stands is extremely resistant, consequently the stands can also be autoclaved\* at 121° C, amongst other benefits. They are also

Information on other stand range can be found either in our full catalogue or on our website at [www.sarstedt.com](http://www.sarstedt.com).

simple to dismantle to allow for easy cleaning.

A version with a side compartment is also available. A matching cover is available for this stand, which protects opened tubes, especially from external influences (e.g. UV rays).

### "Series" stands

Application example	Tube material Version			External dimensions L x W x H in mm	Order no.
	Top	Middle	Bottom		
Tubes up to 25 mm diameter	26	26	10	327 x 72 x 60	93.841.100
Tubes up to 21 mm diameter	21.5	26	10	327 x 72 x 60	93.893.100
Tubes up to 17 mm diameter, all S-Monovettes	17.2	17.2	8.5	257 x 62 x 55	93.844.100
Stand with side compartment, tubes up to 17 mm diameter, all S-Monovettes	17.2	17.2	8.5	257 x 74 x 55	93.1097.100
Suitable for stand no. 93.1097.100. The cover provides excellent protection of opened tubes from external influences	Brown transparent cover			256 x 62 x 72	93.1102.001

### \*Important information on autoclavability:

Products made of PP/PC can be autoclaved up to 121°C without any appreciable loss of mechanical properties. The user should check whether other product characteristics are affected with respect to the intended use.





# Petri dishes

## Petri dishes for bacteriology

Petri dishes from SARSTEDT are manufactured from crystal clear polystyrene and thanks to their heat resistance up to approx. 80°C, they are ideal for processes using hot agar. They are available in 35, 60, 92 and 150 mm diameter variants. The high dimensional stability means the Petri dishes are easily and securely stacked, making them ideal for use in automated plate casting machines. Variants with ventilation cams offer improved gaseous exchange and variants without ventilation cams offer the possibility of longer incubation due to low evaporation rates.

Coloured variants open up a wide range of coding options. A Petri dish divided into two separate compartments offers the option for parallel testing under comparable conditions, or the use of 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 up to approx. 80°C)
- Easily stacked
- With and without ventilation cams
- Radiation-sterilised variants available

### Petri dishes, round

Ventilation cams	Diameter/height in mm	Packaging (SP/IB/OC)	Order no.
with	150 / 20 (gamma-sterile)	10 / 10 / 100	82.1184.500
without	92 / 16	20 / 480 / 480	82.1472
with	92 / 16	20 / 480 / 480	82.1473
without	92 / 16 (gamma-sterile)	20 / 480 / 480	82.1472.001
with	92 / 16 (gamma-sterile)	20 / 480 / 480	82.1473.001
with	60 / 15 (gamma-sterile)	20 / 20 / 500	82.1194.500
with	35 / 10 (gamma-sterile)	20 / 20 / 500	82.1135.500



# Petri dishes





## Petri dish, round, with two compartments

Ventilation cams	Diameter/height in mm	Packaging (SP/IB/OC)	Order no.
with	92 / 16	20 / 480 / 480	82.1195

## Petri dish, square

Ventilation cams	L x W x H in mm	Packaging (SP/IB/OC)	Order no.
without	100 x 100 x 20 gamma-sterile	4 / 4 / 160	82.9923.422

## Coloured Petri dishes with ventilation cams

Diameter/height in mm	Colour	Packaging (SP/IB/OC)	Order no.
92 / 16		20 / 480 / 480	82.1473.020
92 / 16		20 / 480 / 480	82.1473.040
92 / 16		20 / 480 / 480	82.1473.060
92 / 16		20 / 480 / 480	82.1473.080

# Inoculation loops

## 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 due to the omission of sterilisation with heat or flame scarring between two inoculations. They also prevent the creation of pathogenic aerosols which harbour the risk of spreading germs. Flexible inoculation loops allow swabs to be taken easily or inoculation in liquid medium. Two versions are available, 1 µl and 10 µl, which are colour-coded for easier differentiation. The inoculation needle can be used for seeding or withdrawing individual colonies. We recommend the use of the inoculation spreader to apply larger volumes to culture media.

- Time-saving, particularly when processing large serial tests
- Convenient handling
- Ultimate safety
- Gamma-sterile

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

Version	Colour	Packaging (SP/IB/OC)	Order no.
10 µl loop	■	10 / 500 / 1,000	86.1562.010
10 µl loop	■	48 / 960 / 1,920	86.1562.050
1 µl loop	□	10 / 500 / 1,000	86.1567.010
1 µl loop	□	48 / 960 / 1,920	86.1567.050
Needle	■	10 / 500 / 1,000	86.1568.010
Needle	■	50 / 1,000 / 2,000	86.1568.050
Inoculation spreader	■	4 / 4 / 500	86.1569.005



# Petri dish organisation system

## POS 720/2 Petri dish organisation system

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

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

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

### POS 720/2 Petri dish organisation system

Device	POS 720/2-PTS
<b>Power supply</b>	
Electrical connection	230 V ± 10% / 50-60 Hz / 400 VA
<b>Ambient conditions</b>	
Permissible ambient temperature	+15°C – +35°C
Maximum relative humidity	80%, non-condensing
<b>Dimensions</b>	
Width x depth x height	1700 mm x 1100 mm x 1800 mm (height with signal system installed)
Weight	200 kg without petri dishes
<b>Accessories</b>	
Label printer	Direct thermal printer with dispensing device and automatic winding of the carrier material
Labels	Adhesive label rolls
	Supply: 10,000 pc. / roll Format: 78 mm x 10 mm or 50 mm x 10 mm Material: Thermo Premium Top (other material on request) Adhesive: Permanent
<b>Performance data</b>	
Suitable Petri dishes	All brands (summary on request)
Labelling	Barcode and plain text, layout customer-specific
Plate throughput	up to 700 plates/hour
Data processing connection	RJ45 network connection (TCP/IP)

### Automatic culture medium

- Prepare
- Label/mark
- Stack according to samples
- Transport to workstation

Labelled plate, freely configurable layout



The printer and applicator generate labels and apply them to the base or side of the plates

The plate stacker produces one stack per sample



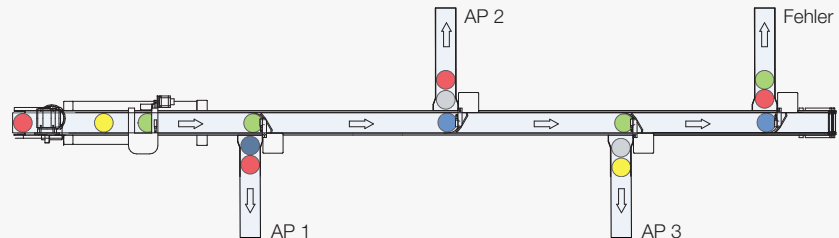
# Petri dish transfer system

## PTS Petri Dish Transfer System

The PTS Petri dish transfer system transports the plate stacks pre-sorted by the POS 720 to the workstations. The free-standing system offers customised solutions and is height-adjustable within a defined range. Laboratory tables and benches can be positioned close to the PTS.

Exit points on the track eject the plate stacks at the assigned workstation. Plate stacks which cannot be assigned during scanning are discharged to the fault area.

Layout example for PTS with three workstations (AP1-AP3) and a fault lock



### Petri dish transfer system

Device	PTS
<b>Power supply</b>	
Electrical connection	230 V $\pm$ 10% / 50-60 Hz / 322 VA
<b>Ambient conditions</b>	
Permissible ambient temperature	+15°C – +35°C
Maximum relative humidity	80%, non-condensing
<b>Dimensions</b>	
Width x depth x height	Varies depending on customer-specific version
Weight	Varies depending on customer-specific version

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

Rotary plate with 15 magazines for 40 plates each



Conveyor line configurable for all spatial conditions

Plate stack for a sample en route to the workstation

# DishRack

## DishRack Petri dish stand

### DishRack for optimum handling

Toppling stacks are a thing of the past. Up to 88 plates can be held safely in one hand. Each DishRack has four retainers, suitable for standard Petri dishes with 92 and 100 mm diameter. Easily remove plates in any location without laborious rearrangement. At the analytical workstation, in the incubator or during sample storage - the DishRack provides support in all areas.

### Safe transport in the indestructible rack

Two flexible silicone strips ensure that the plates are held securely in the racks, even when there are strong vibrations and during transportation. The high-quality, temperature-resistant and shatterproof plastic of the DishRack is largely resistant to acids and alkalis.

### DishRack allows for organisation and systematic working

In the DishRack, you can deposit, transport, incubate and store your plates in an orderly manner within logistics systems. You can make your individual work process easier, and better organised with the DishRack. Five different colours and interchangeable labelling strips are available for this purpose. A glance in the incubator is all it takes to access the green DishRack, to which all samples from the urine workstation have been assigned, for example, or to remove the small yellow DishRack, which, according to your organisation plan, may contain the fungal cultures from the stool workstation.

### DishRack 50 / for up to 52 plates

Height in mm	Colour	Packaging (SP/IB/OC)	Order no.
240	<input type="checkbox"/> Colourless	1 / 1 / 1	93.1647
240	<input checked="" type="checkbox"/> Red	1 / 1 / 1	93.1647.001
240	<input checked="" type="checkbox"/> Yellow	1 / 1 / 1	93.1647.002
240	<input checked="" type="checkbox"/> Blue	1 / 1 / 1	93.1647.003
240	<input checked="" type="checkbox"/> Green	1 / 1 / 1	93.1647.004

### DishRack 80 / for up to 88 plates

Height in mm	Colour	Packaging (SP/IB/OC)	Order no.
360	<input type="checkbox"/> Colourless	1 / 1 / 1	93.1646
360	<input checked="" type="checkbox"/> Red	1 / 1 / 1	93.1646.001
360	<input checked="" type="checkbox"/> Yellow	1 / 1 / 1	93.1646.002
360	<input checked="" type="checkbox"/> Blue	1 / 1 / 1	93.1646.003
360	<input checked="" type="checkbox"/> Green	1 / 1 / 1	93.1646.004



# Deep Well MegaBlock®

## Deep Well MegaBlock® 96 Well

The Deep Well MegaBlock® meets all important requirements for sample processing up to a volume of 2.2 ml in automated systems, or in the case of large quantities of retained samples.

- Alphanumeric labelling of wells
- High security due to 100% leak test of each well
- Free from human DNA, DNase/RNase and free from pyrogens/endotoxins
- Ideal for long-term sample storage
- Raised wells
- Also suitable for heat sealing systems
- Films and mats are available for covering

## MegaBlock® 0.5 / 1.2 / 2.2 ml, PP

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

## MegaBlock® 1.2 ml, PS clear

- Ideal for long-term storage of blood samples
- Made of highly transparent and crystal clear polystyrene, allows for easy visual well inspection

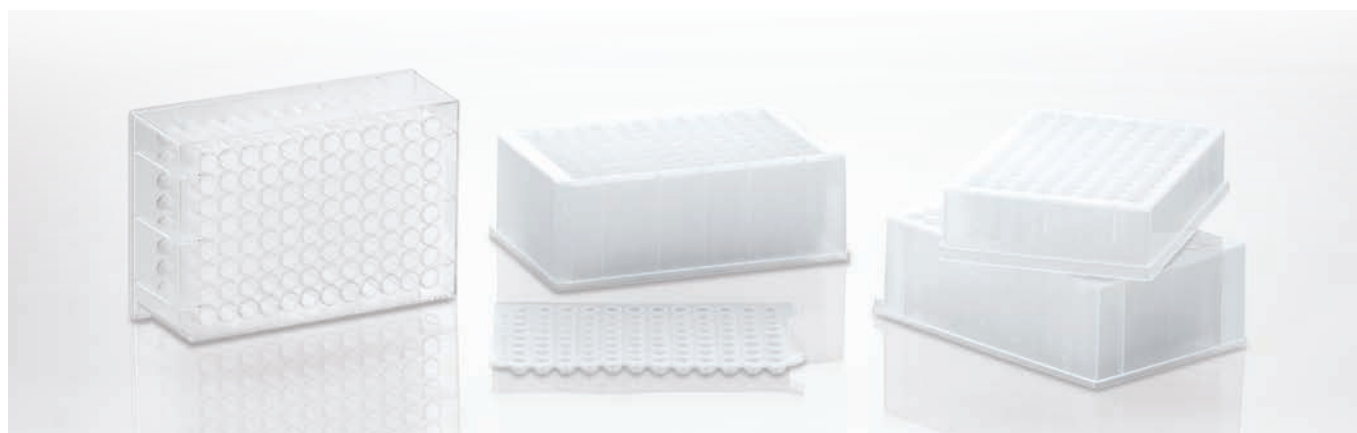
### MegaBlock®

Version	Volume/material	Optics	Packaging (SP/IB/OC)	Order no.	
Round wells	0.5 ml	PP	Transparent	7 / 7 / 56	82.1969.002
Round wells	1.2 ml	PS	Highly transparent	4 / 32 / 32	82.1970.002
Round wells	1.2 ml	PP	Transparent	4 / 32 / 32	82.1971.002
Square wells, V-bottom	2.2 ml	PP	Transparent	4 / 4 / 24	82.1972

### Cover and films for MegaBlock®

Version	Packaging (SP/IB/OC)	Order no.
Cover for MegaBlock®, pierceable, suitable for round wells	100 / 50 / 250	95.1990.002
Cover for 2.2 ml MegaBlock®, suitable for 82.1972.002	100 / 50 / 250	95.1991.002
Acetal film, transparent	100 / 100 / 1,000	82.1586

\* 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

SARSTEDT has been a well-known manufacturer of high-quality disposable cuvettes made from polystyrene (PS) and acrylic (PMMA) since the 1970s. The cuvettes are mainly used for photometric analysis, which may be employed to determine the clouding or colour intensity of a solution/suspension. The cuvettes are also available as a 2x optical micro cuvette,

semi-micro cuvette and as a 4x optical cuvette for 90° angle fluorescence measurements. As it is recommended that the user should only use cuvettes with the same mould cavity number, e.g. to avoid variation in absorbance values, our cuvettes are packaged according to mould cavity number and sorted into Styrofoam boxes.

## Semi-micro cuvette 10 x 4 mm, light path: 10 mm, 2 sides optical

Material	Height in mm	Packaging	Packaging (SP/IB/OC)	Order no.
Polystyrene	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.742
Polystyrene	45	Bulk packed 500/bag	500 / 500 / 2,000	67.746
Acrylic (PMMA)	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.740

## Cuvette 10 x 10 mm, optical path: 10 mm, 2 sides optical

Material	Height in mm	Packaging	Packaging (SP/IB/OC)	Order no.
Polystyrene	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.741
Polystyrene	45	Bulk packed 500/bag	500 / 500 / 2,000	67.745
Acrylic (PMMA)	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67,738

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

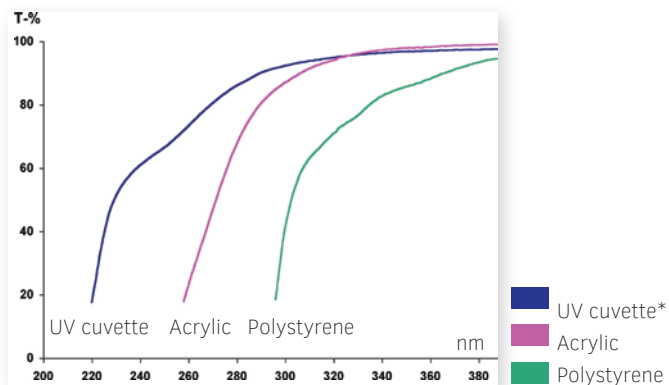
Material	Height in mm	Packaging	Packaging (SP/IB/OC)	Order no.
Polystyrene	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.754
Acrylic (PMMA)	45	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.755





# Cuvettes

## Wavelength-dependent transmission



Wavelength (mm)	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 table display the precise light transmission of the cuvette depending on the different wavelengths and the different plastic types. Cuvettes were each filled with distilled, clear water. 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 our website at [www.sarstedt.com](http://www.sarstedt.com).

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

Material	Height in mm	Packaging	Packaging (SP/IB/OC)	Order no.
Polystyrene	96	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 1,000	67.743
Acrylic (polystyrene)	55	100 / Styrofoam box, packed by mould cavity number	100 / 100 / 2,000	67.749

### Push caps for cuvettes with round opening

Suitable for cuvette	Packaging (SP/IB/OC)	Order no.
Order no.: 67.743	1,000 / 1,000 / 5,000	65.803
Order no.: 67.749	1,000 / 1,000 / 5,000	65.793

### Round cuvette for LKB analyser (used specifically for sample preparation)

Material	Height/diameter in mm	Packaging	Packaging (SP/IB/OC)	Order no.
Polypropylene	51 / 12	Bulk packed 1,000 / bag	1,000 / 1,000 / 5,000	68.752



# Serological pipettes

Serological pipettes from SARSTEDT are manufactured from crystal-clear polystyrene. Printing with a positive and negative scale makes the products suitable for all kinds of applications. In addition, the pipetting volume is increased due to the negative scale. The optimised pipette mouthpiece offers a universal, drip-free seat in conventional pipetting aids.

International colour coding permits quick and easy identification of different volumes. The individually packaged, sterile serological pipettes are certified pyrogen-free/endotoxin-free and non-cytotoxic.



# Serological pipettes

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

Version	Total volume / graduation		Colour code	Packaging (SP/IB/OC)	Order no.
Plugged, individually packaged, sterile	1 ml	1/100 ml	■	1 / 100 / 1,000	86.1251.001*
Plugged, sterile, 25 pieces	1 ml	1/100 ml	■	25 / 25 / 1,000	86.1251.025
Plugged, individually packaged, sterile	2 ml	1/100 ml	■	1 / 100 / 1,000	86.1252.001*
Plugged, sterile, 25 pieces	2 ml	1/100 ml	■	25 / 25 / 1,000	86.1252.025
Plugged, individually packaged, sterile	5 ml	1/10 ml	■	1 / 50 / 500	86.1253.001*
Plugged, sterile, 25 pieces	5 ml	1/10 ml	■	25 / 25 / 500	86.1253.025
Plugged, individually packaged, sterile	10 ml	1/10 ml	■	1 / 50 / 500	86.1254.001*
Plugged, sterile, 25 pieces	10 ml	1/10 ml	■	25 / 25 / 500	86.1254.025
Plugged, individually packaged, sterile	25 ml	2/10 ml	■	1 / 25 / 200	86.1685.001*
Plugged, sterile, 20 pieces	25 ml	2/10 ml	■	20 / 20 / 200	86.1685.020
Plugged, individually packaged, sterile	50 ml	1/2 ml	■	1 / 30 / 90	86.1256.001*

\*Pyrogen-free/endotoxin-free and non-cytotoxic

## Demeter pipette 1.1 ml, with and without tip

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

Version	Total volume / graduation	Packaging (SP/IB/OC)	Order no.
Without tip, plugged, sterile	1.1 ml / 0.5 – 1.0 – 1.1	25 / 25 / 1,000	86.1686.225
With tip, plugged, sterile	1.1 ml / 0.5 – 1.0 – 1.1	25 / 25 / 1,000	86.1686.025

## Aspiration pipette, polystyrene

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

## Ordering information, aspiration pipette

Version	Total volume / graduation	Packaging (SP/IB/OC)	Order no.
Without plug and print, individually packaged, sterile	2 ml / without graduation	1 / 100 / 1,000	86.1252.011

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







Version	Total volume / graduation		Packaging (SP/IB/OC)	Order no.
Without tip, plugged, sterile	5 ml	1 / 10 ml	10 / 10 / 500	86.1687.010
Without tip, plugged, sterile	10 ml	1 / 10 ml	10 / 10 / 500	86.1688.010

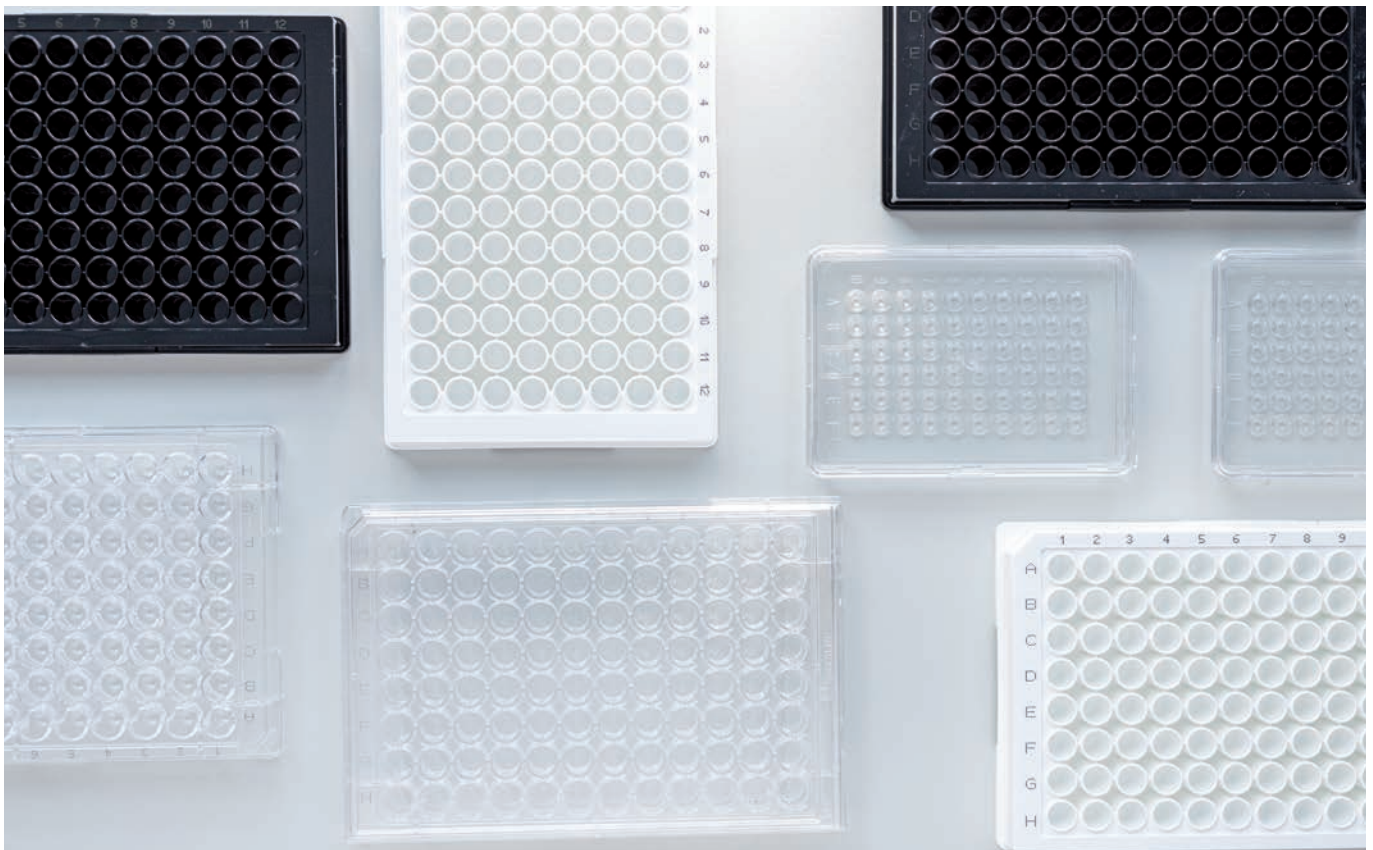
# Micro test plates

With SARSTEDT micro test plates, a large number of tests can be conducted where space is at a premium and using very low sample volumes, e.g. antibiotic test series or biochemical investigations to characterise and differentiate bacteria. The plates in the 96-well format are made of high-quality, crystal clear polystyrene in ANSI/SLAS standard format (formerly SBS standard). The micro test plates therefore provide consistent optical quality and fit in all common

dispensers, washers and readers. Three base shapes (flat, round and conical) are available for different areas of application. To facilitate quick coordination when filling the wells, they are also labelled alphanumerically. Each plate is marked with a batch number and expiration date for improved traceability.

- ANSI/SLAS standard (formerly SBS standard)
- Alphanumeric marking of wells
- Marking of each plate with batch number and expiration date

Designation	Base shape	Lid	Max. volume (ml)	Packaging (SP/IB/OC)	Order no.
Micro test plate		–	0.39	25 / 25 / 100	82.1581
Micro test plate, sterile		✓	0.39	1 / 1 / 50	82.1581.001
Micro test plate		–	0.31	25 / 25 / 100	82.1582
Micro test plate, sterile		✓	0.31	1 / 1 / 50	82.1582.001
Micro test plate		–	0.29	25 / 25 / 100	82.1583
Micro test plate, sterile		✓	0.29	1 / 1 / 50	82.1583.001
Polystyrene lid				25 / 25 / 100	82.1584



# Disposal bags

SARSTEDT disposal bags are used to collect and dispose of used disposable products from the laboratory and hospital. A high level of tear and perforation resistance is achieved using a 50 µm thick polypropylene film with a stable, wide base seam. Due to the risk of injury, however, sharp or pointed objects should never be placed in the disposal bags.

SARSTEDT disposal bags are suitable for steam sterilisation in autoclaves at temperatures up to 134°C. In order to achieve complete steam sterilisation, the disposal bag must always be autoclaved without sealing.

In addition to a range of different sizes, coloured bags and versions with "Bio Hazard" printed on them are also available.

- Strong film (50 µm) for high reliability during application
- Reduction in waste volume
- Autoclavable at temperatures up to 134°C

Opening measurement x length (mm)	Capacity**	Bag colour		Bag printing		Print colour		Packaging (SP/IB/OC)	Order no.
		Natural	Yellow	Yes	No	Red	Blue		
200 x 300	2 litres	•				•		100 / 100 / 1,000	86.1197*
300 x 500	7 litres	•				•		50 / 50 / 500	86.1198
300 x 500	7 litres	•		•				50 / 50 / 500	86.1201
300 x 500	7 litres		•	•			•	50 / 50 / 500	86.1201.103
400 x 780	24 litres	•				•		50 / 50 / 250	86.1199
400 x 780	24 litres	•		•				50 / 50 / 250	86.1202
400 x 780	24 litres		•	•			•	50 / 50 / 250	86.1202.103
600 x 780	40 litres	•				•		50 / 50 / 250	86.1200
600 x 780	40 litres	•		•				50 / 50 / 250	86.1203
600 x 780	40 litres		•	•			•	50 / 50 / 250	86.1203.103
700 x 1,120	80 litres	•				•		50 / 50 / 150	86.1204
700 x 1,120	80 litres		•	•			•	50 / 50 / 150	86.1206.103

\* Disposal bag for table racks in a practical dispenser box (100 units/dispenser pack).

\*\* Can still be sealed after autoclaving.



## Table stand for disposal bags

Epoxy resin-coated steel wire stand

Order no.: 95.1297

One stand including bag dispensing pack  
(order no. 86.1197)





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

You can also visit our website:  
[www.sarstedt.com](http://www.sarstedt.com)

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