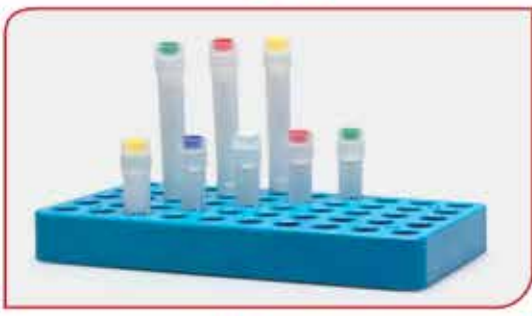
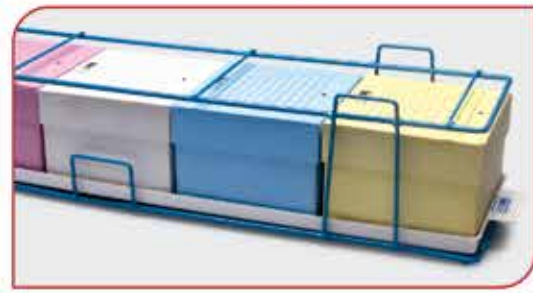




*life sciences
microscopy
microbiology*





TUBES - "centrifuge" "conical bottom" - "screw cap"

- Manufactured from ultra clear, high grade polypropylene.
- Ultra rugged tube wall guarantees resistance to high centrifugal forces up to 6.000 RCF.
- Autoclavable at 121°C for 20 minutes. Caps should not be kept closed during autoclaving process.
- **Alternative 3 tubes:**
 - non-sterilized
 - aseptic tubes
 - sterile tubes
- Aseptic tubes are manufactured in germ-free, class 10.000 sterile areas.
- Sterile tubes are manufactured in germ-free, class 10.000 sterile production areas and then re-sterilised by gamma irradiation.
- Sterile tubes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Caps are manufactured from polyethylene with large ridges for increased grip for easy opening and closing.



Individually single packed sterile tubes have printed lot number, production date and expiry date on the package.



Sterile tubes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" criterias and guarantees the documentation of the quality.

- Cap inner design ensures hermetical and leak-proof closure. Caps can be opened and closed with single hand. A 3/4 turn of the cap will be sufficient for full closure.
- Graduations on side wall offer visual control of the filled volume. Printed marking area on side wall enables easy marking and labelling.
- Flat cap top provides multiple options for marking and labelling of the tube.
- Precise volume marks at the tube bottom clearly and visually show the liquid volume at the tube bottom.



Precise volume marks at the tube bottom clearly and visually show the liquid volume at the tube bottom.



Unique cap design with large ridges enables single hand operation. A 3/4 turn of the cap will be sufficient for hermetical and leak-proof closure of the tube.



Printed marking area on side wall enables easy marking and labelling. Clear graduations for easy volume reference.

clear tubes	amber tubes	volume	tube dimensions	product specifications	packing specifications	pack quantity	box quantity
078.02.001	078.12.001	15 ml	17 x 120 mm	non sterilized	pack in bag	50 pieces	500 pieces
078.02.003	078.12.003	50 ml	30 x 120 mm	non sterilized	pack in bag	50 pieces	500 pieces
078.02.007	078.12.007	15 ml	17 x 120 mm	sterilized - aseptic	pack in bag	50 pieces	500 pieces
078.02.008	078.12.008	50 ml	30 x 120 mm	sterilized - aseptic	pack in bag	50 pieces	500 pieces
078.02.002	078.12.002	15 ml	17 x 120 mm	gamma sterilized - DNA & RNA free	single flow pack	50 pieces	500 pieces
078.02.004	078.12.004	50 ml	30 x 120 mm	gamma sterilized - DNA & RNA free	single flow pack	50 pieces	500 pieces



TUBES - "centrifuge" "self standing" - "screw cap"

- Manufactured from ultra clear, high grade polypropylene. Self stands on the laboratory benches without the need of any tube support.
- Ultra rugged tube wall guarantees resistance to high centrifugal forces up to 6.000 RCF.
- Autoclavable at 121°C for 20 minutes. Caps should not be kept closed during autoclaving process.
- **Alternative 3 tubes:**
 - non-sterilized
 - aseptic tubes
 - sterile tubes
- Aseptic tubes are manufactured in germ-free, class 10.000 sterile areas.
- Sterile tubes are manufactured in germ-free, class 10.000 sterile production areas and then re-sterilised by gamma irradiation.
- Sterile tubes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Caps are manufactured from polyethylene with large ridges for increased grip for easy opening and closing. Other technical specifications are exactly similar to the conical bottom.



clear tubes	amber tubes	volume	tube dimensions	product specifications	packing specifications	pack quantity	box quantity
078.02.005	078.12.005	50 ml	30 x 120 mm	non sterilized	pack in bag	50 pieces	500 pieces
078.02.009	078.12.009	50 ml	30 x 120 mm	sterilized - aseptic	pack in bag	50 pieces	500 pieces
078.02.006	078.12.006	50 ml	30 x 120 mm	gamma sterilized - DNA & RNA free	single flow pack	50 pieces	500 pieces

TUBE RACKS - "for 15 & 50 ml conical bottom centrifuge tubes" - "push & hold"

- Manufactured from high grade polypropylene for safe holding and carrying conical bottom centrifuge tubes.
- Resistant to most acids, bases, and many commonly used solvents. Guarantees high temperature resistance between -20°C to +121°C.
- Uniquely designed to carry 25 tubes in 5 x 5 array tube compartments for holding the tubes in their position firmly.
- Very easy to use; Just press the tubes slightly into the tube compartments and leave.
- Different color options offer visual sorting and organising of different samples.
- Empty racks are easily stackable for reducing storage space.
- Alphanumerical index on tube rows enables easy identification of tube positions.

catalogue number	for tubes	well quantity	tube array	L x W x H	pack quantity
078.06.015B	15 ml	25	5 x 5	120x150x32 mm	1 piece
078.06.050B	50 ml	25	5 x 5	190x230x35 mm	1 piece



Designed to carry 25 tubes in 5 x 5 array tube compartments.







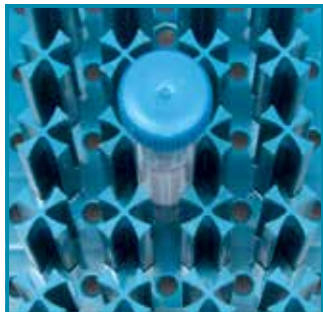
Unique designed tube compartments hold the tube in their position firmly.

TUBE RACKS - "for 15 & 50 ml conical bottom centrifuge tubes" - "hedgehog design"



- Manufactured from "modified" high quality ABS which enables the rack to be used in water baths without the risk of floating.
- Resistant to most acids, bases, and many commonly used solvents.
- "Hedgehog" designed cross formed tube support rods enable uniform aligning of tubes in their position firmly.
- Unique rack design allows easy viewing of the tube contents in 4 angles.
- Different color options offer visual sorting and organising of different samples.
- The interlocking design of the racks makes them ideal for creating a user friendly workstation.
- These racks can also be used as drying rack for tubes and chromatography plates.

catalogue number	for tubes	well quantity	tube array	L x W x H	rack color	pack quantity
079.08.015B	15 ml	50	5 x 10	140x270x66 mm	blue 	1 piece
079.08.015L	15 ml	50	5 x 10	140x270x66 mm	dark blue 	1 piece
079.08.050B	50 ml	25	5 x 5	200x200x70 mm	blue 	1 piece
079.08.050L	50 ml	25	5 x 5	200x200x70 mm	dark blue 	1 piece



"Hedgehog" designed cross formed tube supports enable uniform aligning of tubes in positions firmly.



The interlocking design of the racks makes them ideal for creating a user friendly workstation.



Different color options offer visual sorting and organising of different samples.

TUBE BOX - "for 15 & 50 ml conical bottom centrifuge tubes" - "cardboard"



- Manufactured from freeze resistant, water repellent, durable cardboard covered with superior quality chromated paper coating.
- Press on lids perfectly fit to the box body provides a safe and tight closure. Protects the box interior from dust, moisture and other environmental effects.
- Special moisture repellent coating protects box interior from the effects of liquid nitrogen or condensation from refrigerators.
- Sized to fit all standard steel and polycarbonate freezer racks
- Chemically resistant to alcohols and mild organic solvents. Offers temperature resistance between -196°C to +121°C.
- Alphanumeric index on the lid for identification of tube positions.
- Write on area at the side wall and the lid provides a convenient area for special notes.

catalogue number	for tubes	well quantity	tube array	L x W x H	pack quantity
078.20.015W	15 ml	36	6 x 6	130x130x125 mm	1 piece
078.20.050W	50 ml	16	4 x 4	150x150x125 mm	1 piece



TUBE RACKS - "foldable"

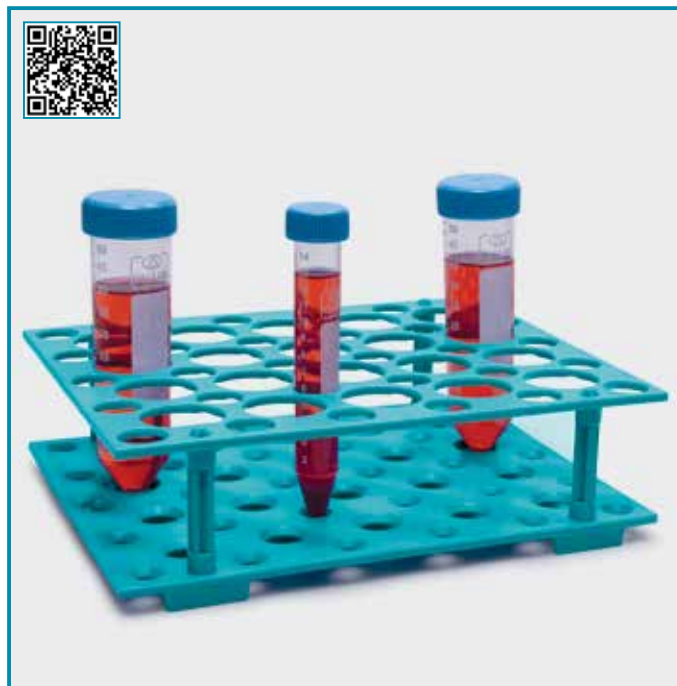
- Manufactured from modified polypropylene which enables the racks to be used in water baths without floating.
- Resistant to most acids, bases, and many commonly used solvents. Guarantees high temperature resistance between -20°C to +121°C.
- Raised tube sockets guarantee firm hold of the tubes at their exact positions.
- The alpha numeric grid reference on the top tier of the rack ensures an easy tube location and sample positioning.
- Racks are supplied assembled and folded. Can be ready for use in few seconds with a simple action.
- These racks can be refolded after use for reducing storage area.

catalogue number	tube volume	tube quantity	tube array	pack quantity
079.03.003B	15 ml	50	5 x 10	1 piece
079.03.005B	50 ml	26	4 x 6/7	1 piece
079.03.006B	15 & 50 ml	21 & 12	assorted	1 piece



Raised tube supports strongly hold the tubes in their position.

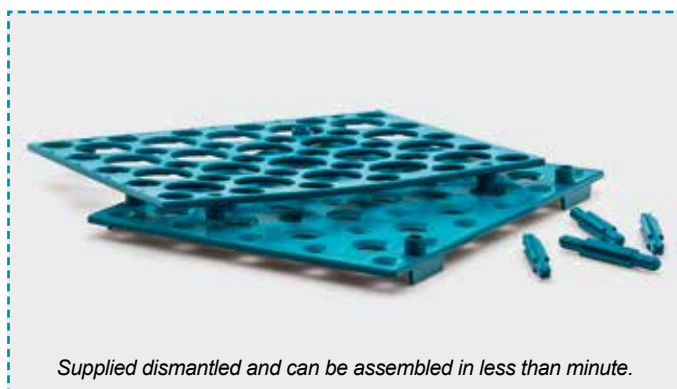
Tube rack can be folded for space saving solution.



TUBE RACK - "snapable"

- Manufactured from high grade ABS for safe holding and carrying conical bottom centrifuge tubes.
- Uniquely designed to carry 30 x 15 ml and 20 x 50 ml centrifuge tubes simultaneously.
- Rack is supplied already disassembled. Unique and practical "snapping" system allows the rack "ready to use" in few seconds.
- Alphanumerical index on the lid enables easy identification of tube positions.

catalogue number	tube volume	tube quantity	tube array	pack quantity
079.04.001	15 & 50 ml	30 & 20	assorted	1 piece



Supplied dismantled and can be assembled in less than minute.



Holes at the bottom plate guarantee firm hold of tubes in their position.



CENTRIFUGE TUBES - "micro" - "with flat cap"

➤ Manufactured from ultra clear polypropylene with flat caps that ensure smooth opening and closing with one hand. Once closed they guarantee leak-proof closure

➤ **Conical bottom tubes which need a tube rack**

➤ **Alternative 2 shapes:**

➤ **Skirted tubes which can self stand on benches.**

➤ Skirted tubes can self stand on laboratory benches without the need of any tube rack.

➤ Ultra rugged tube wall guarantees resistance to high centrifugal forces up to 20.000 RCF. Optimum tube design offers micro pestle compatibility.

➤ Reinforced tube bottom ensures added protection against deformation and leakage. Conical bottom form guarantees excellent fit to almost all centrifuge rotors. Highly polished interior wall guarantees low liquid retention and ensures minimum sample loss.

➤ Autoclavable at 121°C for 20 minutes. Caps should not be kept closed during autoclaving process. Otherwise tubes can be deformed.

➤ **Alternative 2 tubes:** ➤ **aseptic tubes**
➤ **gamma sterile tubes**

➤ Aseptic tubes are manufactured in germ-free, class 10.000 sterile production areas with extreme sterility control.

➤ Sterile tubes are manufactured in germ-free, class 10.000 sterile production areas and then resterilised by gamma irradiation. Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.

➤ Improved cap design ensures smooth opening and closing with one hand. Inner design ensures hermetical and leak-proof closure. Cap can be pierced easily with any syringe needle.

➤ Graduations on the side wall offer visual control of the filled volume. Frosted marking area on side wall enables easy marking and labelling.

tubes sterilized	tubes non sterilized	volume	skirt	pack quantity	box quantity
078.03.021	078.03.001	0.5 ml	non	500 pieces	5000 pieces
078.03.022	078.03.002	1.5 ml	non	500 pieces	5000 pieces
078.03.023	078.03.003	2.0 ml	non	500 pieces	5000 pieces
078.03.024	078.03.004	2.0 ml	yes	500 pieces	5000 pieces



CENTRIFUGE TUBES - "micro" - "with safe-lock cap"

➤ Manufactured from ultra clear polypropylene with safe lock caps that ensure smooth opening and closing with one hand.

➤ Once closed they guarantee leak-proof closure.

➤ Safe-lock caps have a small clasp that clips onto the rim of the tube preventing accidental openings specially during applications where heating is required.

➤ **Alternative 2 tubes:** ➤ **aseptic tubes**
➤ **gamma sterile tubes**

➤ All other technical specifications are identical with flat cap tubes.

tubes sterilized	tubes non sterilized	volume	pack quantity	box quantity
078.05.022	078.05.002	1.5 ml	500 pieces	5000 pieces
078.05.025	078.05.005	5.0 ml	200 pieces	2000 pieces

TUBE ADAPTER - "for 5 ml microtubes"



➤ Manufactured from polypropylene.

➤ Perfectly fits to the bottom part of the 15 ml centrifuge tube rotors.

➤ They provide the practical usage of the 5 ml tube in a 15 ml rotor.

catalogue number	pack quantity
078.05.105	8 pieces

CRYO TUBES - "sterile"

- Designed for the storage and conservation of biological material, human and animal cells at very low temperatures in the gas phase of liquid nitrogen or in cryogenic freezers.
- Manufactured from ultra clear, polypropylene by fully automatic machines. Highly polished interior wall guarantees low liquid retention and ensures minimum sample loss.
- Cryo tubes are manufactured in germ-free, class 10.000 sterile production areas and then resterilised by gamma irradiation.
- Tubes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Since both cap and tube are made of same material with same coefficient of expansion secure seal at all temperatures.
- Caps are featured with cavities for different colored cap inserts which enable easy identification of tube contents. Cap inner design ensures hermetical and leak-proof closure
- The external thread of the tube ensures secure and tight closure and prevents leakage without silicone gasket.
- Caps can be opened and closed with single hand. A 3/4 turn of the cap will be sufficient for full closure.
- Unique foot design enables free standing option. Foot design allows the tube to be fixed at the cryo vial racks. Tube caps can be opened by single hand.

cryo tubes with external thread	tube volume	tube height (mm)	tube diameter (mm)	pack quantity
091.11.102	2.0 ml	48,00 ± 1,00	11,90 ± 0,1	100 pieces
091.11.105	5.0 ml	88,00 ± 1,00	11,90 ± 0,1	100 pieces



Unique star-base foot design enables free standing option.

Base design allows the tube to be fixed at the cryo vial racks. Tube caps can be opened by single hand without the need of picking up the tubes.



The external thread of the tube ensures secure and tight closure and prevents leakage without silicone gasket.



Graduations on the side wall offer visual control of the filled volume.

CRYO TUBE CANES - "polycarbonate"



➤ Made from polycarbonate for holding cryo tubes. Ideal tool to insert the cryo tubes into cryo freezer storage or into dewar flasks. With their total length of 310 mm they can carry 6 pieces 2,0 ml and 3 pieces 5,0 ml cryo tubes at a row.

catalogue number	pack quantity
092.35.003	12 pieces

CAP INSERTS

- Caps are featured with cavities for different colored cap inserts. Cap inserts are made from P.P with different colors for easy identification of tubes.
- They fit precisely into the caps by slight pressing. They can be easily dismantled.

catalogue number	cap inserts disc color	pack quantity
091.15.001	white	100 pieces
091.15.002	blue	100 pieces
091.15.003	yellow	100 pieces
091.15.004	red	100 pieces
091.15.005	green	100 pieces



MICROTUBE RACKS "foldable"

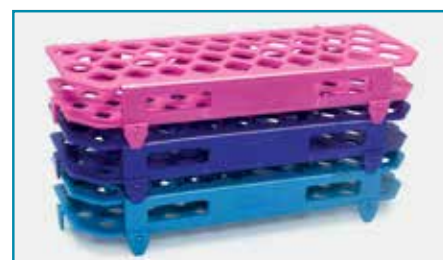
➤ Manufactured from polypropylene with high mechanical strength.

➤ Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -20°C to +121°C.

➤ Alphanumerical index on tube rows enables easy identification of tube positions. Marking areas on wall sides enable easy marking and labelling.

➤ Supplied dismantled as a sheet and can easily be assembled in few seconds.

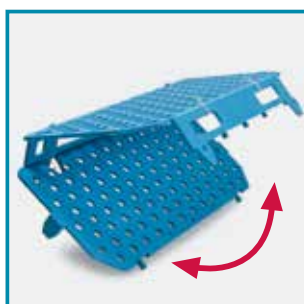
➤ Also can be dismantled in few seconds and forms a flat layer for safe and efficient storage purpose.



Different color options offer visual sorting and organising of different samples. After replacement of the tubes racks can be stacked on top of each other for space saving.



Supplied dismantled as a sheet and can easily be assembled in few seconds.



Also can be dismantled in few seconds and forms a flat layer for safe and efficient storage purpose.

racks for 1,5 & 2,0 ml	well quantity	racks for 5,0 ml	well quantity	rack L x W x H	rack color	pack quantity
080.01.005B	100	080.01.006B	42	110x260x45 mm	blue	1 piece
080.01.005P	100	080.01.006P	42	110x260x45 mm	purple	1 piece
080.01.005R	100	080.01.006R	42	110x260x45 mm	ruby	1 piece

MICROTUBE RACKS "monoblock"

➤ Manufactured from polypropylene with high mechanical strength.

➤ Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -20°C to +121°C.

➤ Can be used with a unique base support tray that provides alternative inclined position for the rack.

➤ According to the wish rack can be used horizontally or with 30 degree angle providing easy filling option of the tubes.

➤ After replacement of the tubes racks can be stacked on top of each other for space saving solution.

➤ Alphanumerical index on tube rows enables easy identification of tube positions.

➤ Marking areas on wall sides enable easy marking and labelling.

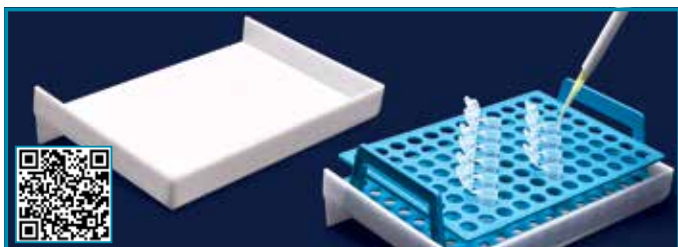


catalogue number	for tubes	well quantity	tube array	rack L x W x H	rack color	pack quantity
080.01.004B	1,5 / 2,0 ml	96	8 x 12	205x135x55 mm	blue	1 piece
080.01.004P	1,5 / 2,0 ml	96	8 x 12	205x135x55 mm	purple	1 piece
080.01.004R	1,5 / 2,0 ml	96	8 x 12	205x135x55 mm	ruby	1 piece
080.01.007B	5,0 ml	48	6 x 8	205x135x70 mm	blue	1 piece
080.01.007P	5,0 ml	48	6 x 8	205x135x70 mm	purple	1 piece
080.01.007R	5,0 ml	48	6 x 8	205x135x70 mm	ruby	1 piece

BASE SUPPORT

➤ Base support is manufactured from acrylic with 30° inclination. When placed under the tube rack with the help of 30 degree inclination this support offers easy filling options of the tubes specially when you are sitting.

catalogue number	color	pack quantity
080.01.101	white	1 piece








MICROTUBE RACKS

"3 tier"

- Manufactured from polypropylene with high mechanical strength.
- Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -20°C to $+121^{\circ}\text{C}$.
- The interlocking design of the racks makes them ideal for creating a workstation.
- Raised tube slots guarantee firm and stable hold of tubes in vertical position.
- Alphanumerical index on tube rows enables easy identification of tube positions. Marking areas on wall sides enable easy marking and labelling.

➤ Unique design for to carry 3 different size micro tubes on each tier:

- Bottom row carries 24 x 0,2 ml (2 x 12 array) micro tubes.
- Middle row carries 14 x 0,5 ml (2 x 7 array) micro tubes.
- Upper row carries 12 x 1,5 ml (2 x 6 array) micro tubes.

catalogue number	rack dimensions	rack color	pack quantity
080.01.003B	165x125x60 mm	blue 	1 piece
080.01.003P	165x125x60 mm	purple 	1 piece
080.01.003R	165x125x60 mm	ruby 	1 piece

Different color options offer visual sorting and organising of different samples



MICROTUBE RACKS

"double side"

- Manufactured from polypropylene with high mechanical strength.
- Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -20°C to $+121^{\circ}\text{C}$.
- Rack has two sides and each side accommodates different size and combination of microcentrifuge tubes.
- Clear box lid enables easy identification of rack content and protects the tubes from dust, moisture and other effects.
- Alphanumerical index on tube rows enables easy identification of tube positions. Marking areas on wall sides enable easy marking and labelling.

➤ Different color options offer visual sorting and organising of different samples.




➤ Racks can be stacked on top of each other for space saving.

➤ Uniquely designed to carry different size micro tubes on both sides.

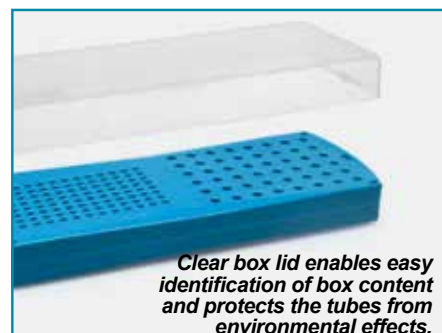
➤ **Upper side:** carries 96 x 1,5 ml (6x16 array) micro tubes

➤ **Reverse side:** carries 48x0,5 ml (6x8 array) and 96 x 0,2 ml (8x12 array) micro tubes.

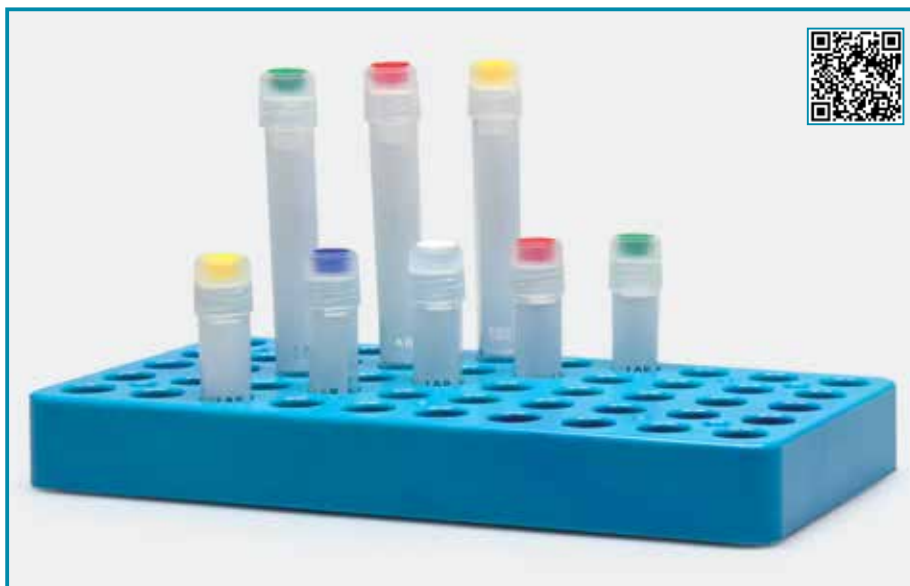


catalogue number	dimensions	rack color	pack quantity
080.06.002B	290x110x60 mm	blue 	1 piece
080.06.002P	290x110x60 mm	purple 	1 piece
080.06.002R	290x110x60 mm	ruby 	1 piece

Racks can be stacked on top of each other for space saving.



CRYO TUBE WORK STATION - "50 well"



➤ Manufactured from polycarbonate with high mechanical strength.

➤ Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -196°C to +121°C.

➤ Uniquely designed to carry 50 pieces of 2,0 ml & 5,0 ml volume cryo tubes in 10 x 5 array.

➤ These racks allow easy one handed opening and closing of tubes thanks to an innovative locking system.

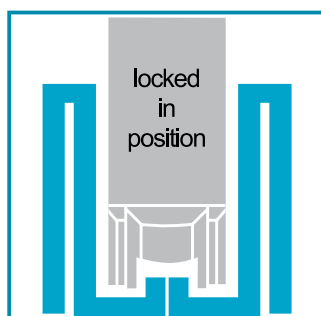
➤ The locking system at the well bottoms ensures that tubes will securely lock in each position and will not return in their axis.

➤ Alphanumerical index on tube rows enables easy identification of tube positions.

➤ Featured with a frosted write on and labelling area at the front side.

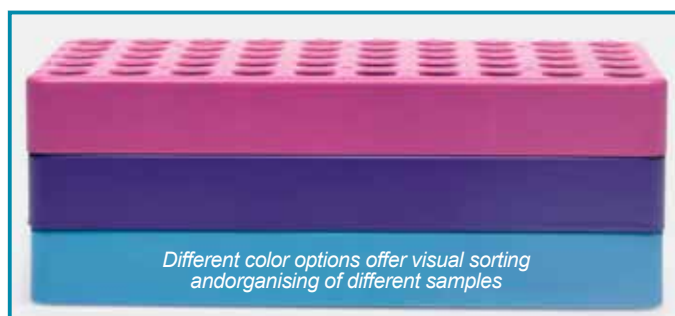
➤ Different color options offer visual sorting and organising of different samples

catalogue number	for tubes	well quantity	tube array	L x W x H	rack color	pack quantity
092.01.001B	2,0 - 5,0 ml	50	10 x 5	195x101x24 mm	blue	1 piece
092.01.001P	2,0 - 5,0 ml	50	10 x 5	195x101x24 mm	purple	1 piece
092.01.001R	2,0 - 5,0 ml	50	10 x 5	195x101x24 mm	ruby	1 piece



These racks allow easy one handed opening and closing of tubes thanks to an innovative locking system.

The locking system at the well bottoms ensures that tubes will securely lock in each position and will not return in their axis.



TUBE BOX - "100 well" - "hinged lid"

➤ Manufactured from polypropylene with high mechanical strength. Resistant to most acids, bases and solvents. Guarantees high temperature resistance between -20°C to +121°C.

➤ Uniquely designed to carry 100 cryo tubes in 10 x 10 array.

➤ Hinged lid with built-in stop allows easy one-handed access. Featured with a frosted write on area at the front side of the lid.

➤ Clear box lid enables easy identification of box content and protects the tubes from environmental effects.

➤ Moulded frames at the corners of the tube boxes enable perfect stacking on top each other without sliding.

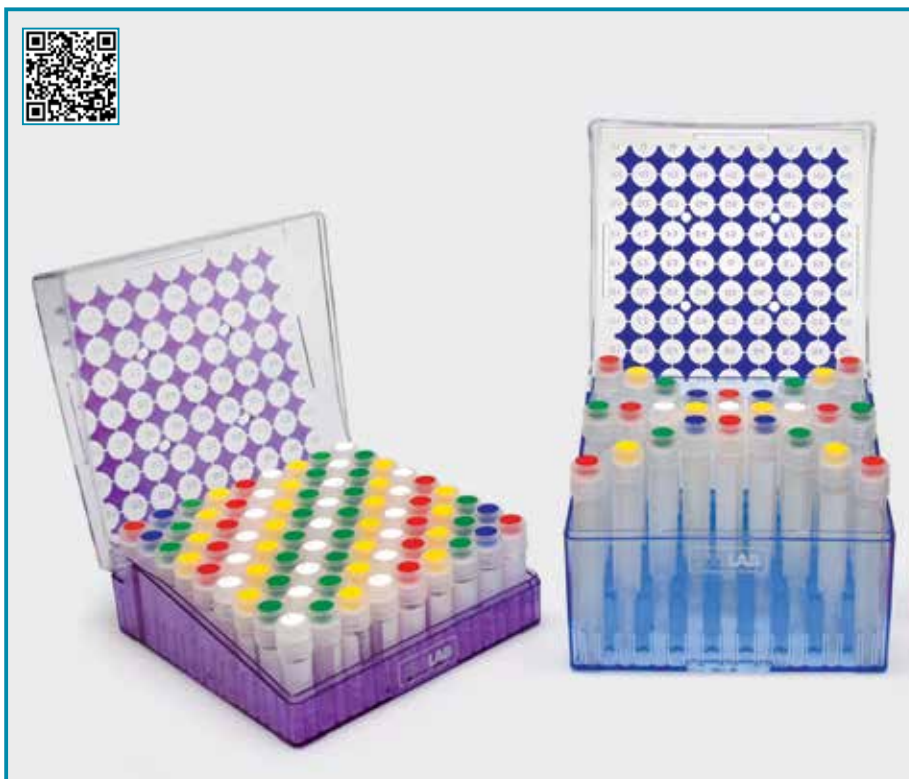


catalogue number	tube array	L x W x H (mm)	rack color	pack quantity
080.01.002B	10 x 10	141x151x53	blue	1 piece
080.01.002P	10 x 10	141x151x53	purple	1 piece
080.01.002R	10 x 10	141x151x53	ruby	1 piece

Alphanumerical index both on tube rows and the lid enables easy identification of tube positions.

Different color options offer visual sorting and organising of different samples.

CRYO TUBE BOXES - "81 well" - "polycarbonate"



➤ Manufactured from polycarbonate with high mechanical strength and high temperature resistance between -196°C to $+121^{\circ}\text{C}$.

➤ Uniquely designed to carry 81 pieces micro or cryo tubes in 9 x 9 array.

➤ "Hedgehog" designed tube compartments hold the tube in their position firmly. They fit all steel and polycarbonate freezer racks.

➤ Unique design with vent and drainage holes guarantees best, efficient air circulation.

➤ Forward slope base ensures quick visual orientation. Easily stackable for reducing storage space.

➤ Hinged lid with built-in stop allows very easy access to tubes.

➤ Clear box lid enables easy identification of box content and protects the tubes from dust, moisture and other environmental effects.

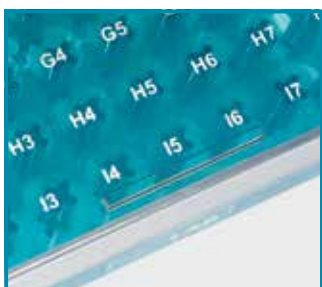
➤ Vent and drainage holes at the lid and the base guarantee the best air circulation.

➤ Alphanumeric index both on tube rows and the lid enables easy identification of tube positions.

➤ Featured with a frosted write on area at the front side of the lid.

➤ Different color options offer visual sorting and organising of different samples.

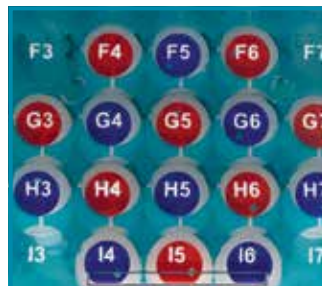
catalogue number	for tubes	well quantity	tube array	L x W x H	box color	pack quantity
093.01.001G	2,0 ml	81	9 x 9	133x133x53 mm	green	1 piece
093.01.001P	2,0 ml	81	9 x 9	133x133x53 mm	purple	1 piece
093.01.001R	2,0 ml	81	9 x 9	133x133x53 mm	ruby	1 piece
093.01.002B	5,0 ml	81	9 x 9	133x133x96 mm	blue	1 piece



Vent and drainage holes at the lid and the base guarantee the best air circulation.



"Hedgehog" designed cross formed tube supports enable uniform aligning of tubes in positions firmly.



Alphanumeric index both on tube rows and the lid enables easy identification of tube positions.



Box is supplied together with a disposable forceps for easy removal of tubes.



CRYO TUBE BOXES - "81 well" - "cardboard"

➤ Manufactured from freeze resistant, water repellent, durable cardboard covered with superior quality chromated paper coating.

➤ Special moisture repellent coating protects box interior from the effects of liquid nitrogen or condensation from refrigerators.

➤ Chemically resistant to alcohols and mild organic solvents. Offers temperature resistance between -196°C to $+121^{\circ}\text{C}$.

➤ Alphanumeric index on the lid for identification of tube positions. Write on area at the side wall and the lid provides a convenient area for special notes.

➤ Press on lids perfectly fit to the box body provides a safe and tight closure. Protects the box interior from dust, moisture and other environmental effects.

➤ Sized to fit all standard steel and polycarbonate freezer racks

catalogue number	for tubes	well quantity	tube array	L x W x H	pack quantity
092.22.101W	2,0 ml	81	9 x 9	135x135x50 mm	1 piece
092.22.102W	5,0 ml	81	9 x 9	135x135x95 mm	1 piece



PCR TUBES - "single cavity"

- Single cavity 0.2 ml PCR tubes for thermal transfer and PCR applications are manufactured from ultra clear, virgin polypropylene by fully automatic, human touch free machines.
- Manufactured in class 10.000 sterile areas as "DNase, RNase & pyrogen free" product.
- Uniform and thin wall design accelerates the thermal heat transfer and shortens the PCR reaction and cycling times.
- Optimum tube dimensions guarantee compatibility with most leading thermal cyclers.
- Cap inner design ensures hermetical and leak-proof closure
- Once cap is closed the tubes guarantee perfect sealing during thermal cycling preventing evaporation.
- Cap can be opened and closed with one hand without the risk of sample contamination.
- Group packed with lot number, production date and expiry date printed on the package.

catalogue number	pack quantity	box quantity
123.01.002	500 pieces	6 packs/3000 pieces



PCR TUBES - "8 strip"

- 8 strip PCR tubes for thermal transfer and PCR applications are manufactured from ultra clear, high grade polypropylene by fully automatic, human touch free machines.
- They perfectly fit to all PCR plates and provide fast filling option by 8 channel pipettors.
- Manufactured in class 10.000 sterile areas as "DNase, RNase & pyrogen free" product.
- Uniform and thin wall design accelerates the thermal heat transfer and shortens the PCR reaction and cycling times.
- Unique design offers compatibility with most leading PCR thermal cyclers.
- Once caps are closed the tubes guarantee perfect sealing during thermal cycling preventing evaporation. Caps can be opened and closed with one hand without the risk of sample contamination.
- Group packed with lot number, production date and expiry date printed on the package.

catalogue number	volume	product descriptions	pack quantity	box quantity
123.01.028	0,2 ml	clear PCR strips with attached flat caps	12 pieces	10 packs / 120 pieces
123.03.028	0,2 ml	clear PCR strips with separate flat caps	12 pieces	10 packs / 120 pieces

qPCR TUBES - "8 strip" - "with flat cap"

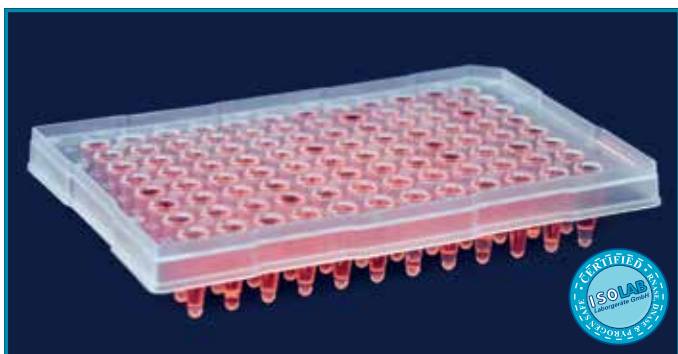
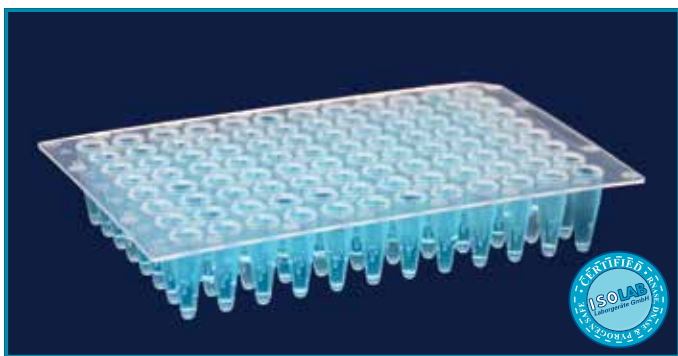
- 8 strip 0,1 ml qPCR tubes for thermal transfer and qPCR applications are manufactured from ultra clear, high grade polypropylene by fully automatic, human touch free machines. Manufactured in class 10.000 sterile areas as "DNase, RNase & pyrogen free" product.
- Uniform and thin wall design accelerates the thermal heat transfer and shortens the PCR reaction and cycling times. Low profile tube design offers compatibility with most leading qPCR machines.
- Once caps are closed the tubes guarantee perfect sealing during thermal cycling preventing evaporation. Caps can be opened and closed with one hand .



- Group packed with lot number, production date and expiry date printed on the package.

catalogue number	volume	product descriptions	pack quantity	box quantity
123.02.028	0,1 ml	clear qPCR strips with seperated flat caps	12 pieces	10 packs / 120 pieces
123.02.018	0,2 ml	clear qPCR strips with seperated flat caps	12 pieces	10 packs / 120 pieces

PCR PLATES



- 96 well PCR plates with 0,2 ml wells for thermal transfer and PCR applications are manufactured from ultra clear, virgin polypropylene by fully automatic, human touch free machines.
- Manufactured in class 10.000 sterile areas as “DNase, RNase & pyrogen free” product.
- Uniform and thin wall design accelerates the thermal heat transfer and shortens the reaction and cycling times.
- Unique design offers compatibility with most leading PCR machines
- Alphanumerical index on tube rows enables easy identification of tube positions.
- Single packed with lot number, production date and expiry date printed on the package.

catalogue number	product descriptions	pack quantity	box quantity
123.01.096	Non- skirted	10 pieces	5 packs / 50 pieces
123.02.096	Semi skirted	10 pieces	5 packs / 50 pieces

SEALING FILMS - “for PCR and qPCR plates”

- Manufactured from polyester based film with acrylic adhesive back. “DNase, RNase & pyrogen free” product.
- Guarantees excellent chemical and temperature resistance between -40°C to +120°C.
- Can be used with all kinds of microplates including raised rim and skirted ones. Transparency allows optical analysis possibility of PCR and qPCR applications.
- Allows easier and more accurate positioning and more secure sealing around each well.
- Prevents cross contamination between samples and wells.
- Also does not interfere with cycle reactions and does not cause spills on PCR samples.



catalogue number	product descriptions	pack quantity	box quantity
124.01.001	Membranes for PCR plates	10 pieces	100 pieces

PCR RACK & WORK STATION

- Manufactured from polypropylene for “before” and “after” use at PCR sampling and applications.
- Rack can carry 3 different size PCR tubes & PCR strips.
 - 96 x 0,2 ml PCR tubes (8x12 array)
 - 12 x strip of 8 PCR tubes (8x12 array)
 - 8 x strip of 12 PCR tubes (8x12 array)
- Alphanumerical index on tube rows enables easy identification of tube positions.



blue rack	purple rack	ruby rack	rack (mm) dimensions	pack quantity
089.03.012B	089.03.012P	089.03.012R	125x88x31	1 piece

- Rack can carry 3 different size tubes
 - 32 x 0,2 ml PCR tubes (4x8 array)
 - 16 x 0,5 ml PCR tubes (2x8 array)
 - 24 x 1,5 ml micro tubes (4x6 array)

catalogue number	rack dimensions	pack quantity
089.03.013	210 x 115 x 50 mm	1 piece





FLASKS - "for cell culture"

- Manufactured from optically clear polystyrene in germ-free, class 10.000 sterile production areas and then resterilised by gamma irradiation. Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Offers absolutely flat growth surface with surface activated growth area for fast and efficient growth.
- Special design offers minimized contamination risk. Angled design of the flask neck allows easy access to each corner with 100 % cell retrieval without leaving any dead corners.
- Caps are made from polypropylene with large ridges with increased grip. Cap inner design ensures hermetical and leak-proof closure.
- Caps can be opened and closed with single hand. A 2/3 turn of the cap will be sufficient for hermetic and leak-proof closure.
- Graduations on the side wall offer visual control of the filled volume. Marking area on side wall enables easy marking and labelling.
- Individually single packed with lot number, production date and expiry date printed on the package.

catalogue number	growth area	working volume	cap type	surface treatment	pack quantity	box quantity
120.11.025	25 cm ²	7 ml	vent cap with filter	yes	5 pieces	200 pieces
120.11.075	75 cm ²	25 ml	vent cap with filter	yes	5 pieces	100 pieces
120.11.175	182 cm ²	50 ml	vent cap with filter	yes	5 pieces	40 pieces
120.12.025	25 cm ²	7 ml	plug seal cap	yes	5 pieces	200 pieces
120.12.075	75 cm ²	25 ml	plug seal cap	yes	5 pieces	100 pieces
120.12.175	182 cm ²	50 ml	plug seal cap	yes	5 pieces	40 pieces

"plug cap for airtight culture"



Plug seal cap usually used for airtight culture applications. Can be used also for open culture when the cap is unscrewed.

"plug cap for airtight culture"



Vent cap is designed for open culture applications. Includes a contamination preventing hydrophobic membrane 0,2 µm.



Angled design of the flask neck allows easy access to each corner with 100 % cell retrieval without leaving any dead corners.



Ergonomic design minimizes contamination and raised corners at the body enables easy and slip-free stacking possibility.

CENTRIFUGE TUBES - "for cell culture"

- Manufactured from **FDA approved** ultra clear, high grade polypropylene. Can resist centrifugation up to 6.000 RCF.
- Sterilized with gamma irradiation, **free of RNase, DNase, and pyrogene**.
- Individual packing eliminates the possible risks of contaminations.
- Their conical bottoms make them suitable for centrifugation tests in immunology, microbiology etc.

Other technical specifications can be seen at catalogue page no 180 - 181.





MULTIWELL PLATES - "for cell culture"

- Widely used plates for handling multiple samples in a single experiment during culture. Manufactured from optically clear polystyrene in germ-free, class 10.000 sterile production areas and then resterilized by gamma irradiation. Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Offers absolutely flat growth surface with surface activated growth area for fast and efficient growth. Unique design guarantees minimized cross contamination risk. They offer also easy handling with slip-free stacking possibility. Lid with air-venting system for controlled gas exchange with low evaporation.
- Vented base guarantees excellent air flow between stacked dishes to prevent condensation. Sloped edge allows placement of the lid in one single position. Uniform well volumes always ensures equal growth surface area.
- Individually single packed with lot number, production date and expiry date printed on the package.



Ergonomic design offers minimized contamination risk and easy handling with slip-free stacking possibility.

catalogue number	well quantity	well type	external dimensions (mm)	well dimension	growth area	working volume	surface treatment	pack quantity	box quantity
122.11.006	6	flat	85.4 x 127.6 x 22.5	35.0 x 17.5 mm	9.60 cm ²	3 ml	yes	1 piece	100 pieces
122.11.012	12	flat	85.4 x 127.6 x 22.5	22.1 x 17.5 mm	3.85 cm ²	2 ml	yes	1 piece	100 pieces
122.11.024	24	flat	85.4 x 127.6 x 22.5	15.5 x 17.5 mm	1.93 cm ²	1 ml	yes	1 piece	100 pieces
122.11.048	48	flat	85.4 x 127.6 x 22.5	9.75 x 17.5 mm	0.84 cm ²	0,5 ml	yes	1 piece	100 pieces
122.11.096	96	flat	85.4 x 127.6 x 16.0	6.50 x 10.8 mm	0.33 cm ²	0.2 ml	yes	1 piece	100 pieces
122.11.196	96	round	85.4 x 127.6 x 16.0	6.92 x 12.0 mm	0.58 cm ²	0,2 ml	yes	1 piece	100 pieces

PETRI DISHES - "for cell culture" - "sterile"

- Manufactured from optically clear, transparent polystyrene specially for cell culture practices.
- Manufactured in germ-free, class 10.000 sterile production areas and then resterilized by gamma irradiation.
- Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Stacking ring on the lid and the corresponding base part guarantees secure stacking option.
- Surface treated uniform flat growth surface guarantees excellent suspension for cultures.



catalogue number	diameter	height	growth area	working volume	surface treatment	external grip	pack quantity	box quantity
120.13.035	32.8 mm	13 mm	8.5 cm ²	3 ml	yes	yes	10 pieces	960 pieces
120.13.060	52.0 mm	17 mm	21.2 cm ²	5 ml	yes	yes	10 pieces	600 pieces
120.13.090	84.6 mm	17 mm	55.0 cm ²	12.5 ml	yes	yes	10 pieces	500 pieces



MAGNIFIER - "table top"

- Multifunctional table-top magnifier offers magnification power of 3X and 5X depending on view direction.
- Can be operated by one hand. Offers smooth and easy use with distant and near vision lenses.
- 4 LED bulbs with on/off control provide super bright powerful illumination.
- Two separate flexible gooseneck holders enable magnifying lens and illumination angle adjustable in multiangular axes.
- Shadow and flicker free illumination without heat development provides optimal concentration of light.
- Aspherical lens provides spherical aberration and distortion free images with edge-to-edge sharpness.
- Removable main body can be fixed at table corner with a clamp.
- Sturdy base plate increases the standing efficiency.
- The clamp mechanism at the base enables fixation of objects firmly in place.

catalogue number	pack quantity
065.10.001	1 piece



MAGNIFIER - "handy type"

- Hand magnifier offers magnification power of 3X and 5X depending on view direction.
- Handle perfectly fits to hand with a comfortable grip.
- Aspherical lens provides spherical aberration and distortion free images with edge-to-edge sharpness.
- LED bulb with on/off control provides super bright powerful illumination.
- A rotatable joystick switch enables adjustment of illumination angle in all angles.

catalogue number	external dimensions	lens dimensions	pack quantity
065.10.006	230 x 100 mm	100 mm	1 piece



MAGNIFIER - "pocket type"

- Perfect magnifier for reading small prints with magnification power of 2X.
- 3 LED bulbs with on/off control provides super bright powerful illumination.
- Ergonomic design enables intuitive movement on the reading material. Delivered in a soft protective bag

catalogue number	external dimensions	lens dimensions	pack quantity
065.10.004	60 x 145 mm	60 x 100 mm	1 piece



REFRACTOMETER - "digital"

- With a wide measuring range offers a precise measurement and determination of refractive index and Brix values of liquid samples.
- Portable, light weight, compact design guarantees fast and easy measurements also eliminates the reading errors.
- Operation is extremely simple: only with a few drops of sample guarantees fast and reliable measurements.
- Zero point check and calibration can be done with water.
- LED light source around the prism warns the user during the calibration or measurement process.
- Simple and easy to change measuring from % Brix to refractive index. Features with automatic temperature compensation (ATC).

catalogue number	measuring range % Brix	measuring range refractive index	division Brix / RI	ATC
618.32.001	0 - 95	1,3330 - 1,5400	0,1/0,0001	yes



REFRACTOMETER - "hand type"

- A practical alternative for practical yet quick measurement of concentrations of liquids.
- Portable and hand-held design enables both laboratory and field applications.
- Models with automatic temperature compensation are specially suitable for field use.
- With focusing eyepiece with soft rubber eyecups for reducing straylight ingress and also avoiding scratches at spectacle lenses.
- Calibration is easily done by turning the adjustment screw.

catalogue number	measuring range % Brix	division %	ATC
618.21.001	0 - 10	0,1	yes
618.22.001	0 - 18	0,1	yes
618.23.001	0 - 32	0,2	yes
618.24.001	0 - 80	0,5	no
618.25.001	0 - 90	0,5	no

REFRACTOMETER - "ABBE"

- Large optical prism enables excellent boundary line brightness and contrast during measurements.
- Adjustable wide field eyepiece with 10X magnification, enables bright and clear images. Super contrast, optical system with 30X magnification guarantees sharp images.
- Equipped with movable, hinged covers to keep light out. Offers connection possibility to a thermostatic circulator.
- Featured with a digital thermometer with a large LCD display. Temperature reading is selectable as °C or °F with a precision of 0,1°C or 0,1°F.

catalogue number	618.41.001
external dimensions (mm)	270 x 180 x 370
refractive index (nD)	1,3000 - 1,7000
dissolved solid Brix (%)	0 - 95
accuracy	± 0,0002
water inlet / outlet Ø (mm)	10
digital thermometer	LCD display - 34 x 14 mm
temperature range (°C)	0 - 70
temperature uniformity (°C)	± 0,1



- Ideal for precise measurement and determination of refractive index and % Brix values of liquid, solid, semi-solid and powder samples. Simple handling and easy to use. Calibration can be done easily with supplied calibration prism.

MICROSCOPE - "biological"



- Ideal for academic and clinical research with excellent optical system, outstanding resolution and definition.
- Unique design with backward nosepiece offers larger working space and enables convenient handling.
- Featured with a 360° rotatable binocular head inclined at 30° with interpupillary distance adjustable 50 mm - 75 mm.
- Wide field eyepiece with 10X magnification power, 20mm lens diameter enables bright and clear images
- 4X, 10X, 40X and 100X plan achromatic objectives guarantee net and sharp images. NA 1,25 abbe condenser with iris diaphragm and filter holder guarantees ideal contrast.
- 142x138 mm square mechanical stage with 76 mm left-right and 55 mm back-forward movement offers easy use.
- Coarse and fine adjustment is enabled with upper limit safety with 0,002 mm fine division and 20 mm maximum moving limit. Each rotation of control knob enables 37,7 mm coarse stroke and 0,2 mm fine stroke.
- Featured with a power supply 100 Volt - 220 Volt multi input rating and easily replaceable, super bright and powerful LED illumination with adjustable light power.
- Supplied with dust cover and immersion oil.

catalogue number	pack quantity
613.21.001	1 piece



Featured with a 360° rotatable binocular head inclined at 30° with interpupillary distance adjustable 50 mm - 75 mm.



Featured with a power supply 100 Volt - 220 Volt multi input rating and super bright LED illumination with adjustable light power.



142x138 mm square mechanical stage with 76 mm left-right and 55 mm back-forward movement offers easy use.



Coarse and fine adjustment is enabled with upper limit safety with 0,002 mm fine division and 20 mm maximum moving limit.



IMAGE PROJECTOR

- Consists of a scientific research camera with Aptina CMOS sensor for advanced video and image processing.
- Offers excellently clear projection of the images from microscopes to screens and practical photo and video shootings.
- Featured with hardware resolution among 0,35M to 14M and USB 2.0 interface for high speed data transmission. Ultra-fine color engine guarantees perfect color reproducibility.
- Other pcs are; Maximum resolution: 8.000.000 Pixels / Pixel size: 1,67 μm x 1,67 μm / Dynamic range: 65,2 dB. / SN ratio: 34 dB / Spectral range: 380 – 650 nm / Exposure: 0,38 ms – 2000 ms, ROI Auto & Manual.
- Sturdy zinc aluminium housing for a very long life cycle.

catalogue number	pack quantity
613.31.001	1 piece

MICROSCOPE - "stereo"



- Offers ergonomic design, sharp image quality, high resolution and wide field of viewing for academic, industrial and clinical applications.
- Featured with a 360° rotating binocular head inclined at 45 with interpupillary distance adjustable 52 mm - 75 mm.
- Wide field eyepiece with 10X magnification power with 20mm view field enables bright and clear images.
- Adjustable objective with 0,7 X to 4,5X magnification power provides a wide and clear viewing field of 20 mm diameter with zoom ratio of 1:6,4
- Featured with a power supply 100 Volt - 220 Volt multi input rating and easily replaceable, super bright and powerful LED illumination from bottom and overhead.
- Supplied with dust cover, and circular examination glass plate and an additional examination plate with one side black and other side white.

catalogue number	pack quantity
613.22.001	1 piece



Supplied with an additional examination plate with one side black and other side white.



52 - 75 mm



Featured with a 360° rotating binocular head inclined at 45 with interpupillary distance adjustable 52 mm - 75 mm.

Objective with 0,7 X to 4,5X magnification power provides a wide and clear viewing field of 20 mm diameter with zoom ratio of 1:6,4.

Featured with a power supply 100 Volt - 220 Volt multi input rating and super bright and powerful. **LED illumination from bottom.**

Featured with a power supply 100 Volt - 220 Volt multi input rating and super bright and powerful. **LED illumination from overhead.**

MICROSCOPE SMART TABLET



- Offers a built-in image capture and video record 9.7 inch touch screen tablet, with a resolution of 2048(H) x 1536(V).
- Consists of a 5.000.000 pixels camera system and 1080p video support.
- Futures for measuring line length, curve length, parallel line distance and point line distance. Also geometric measurements are available such as Radius of the circle line, three point circle and concentric circle.
- Supplied with adapting lens to convert from C-mount to 23.2 mm eyepiece tube, with 30.0 mm adaptor rings and 30.5 mm adaptor rings to fit most of the microscopes.

catalogue number	pack quantity
613.41.001	1 piece



COVER GLASSES - "for counting chambers"



➤ Manufactured from special optical glass with ground and polished edges.

➤ These cover glasses are used to cover specimens in counting chambers.

➤ With their excellent flat surfaces they adhere perfectly on the chambers and define the volume of the cell suspension over the counting grid.

➤ Their substantial thickness of 0,4 mm offers perfect results without bending under capillary forces.

➤ Their practical dimensions of 20 x 26 mm enables use with almost chamber types.

catalogue number	pack quantity
075.04.001	10 pieces

BLOOD COUNTING CHAMBERS

➤ Manufactured from special optical glass according to DIN 12847 standard.

➤ It is possible to count different types of cells such as leukocyte, erythrocytes with simple methods under a microscope.

➤ Tolerance of the depth of the chamber does not exceeds 2 %.

➤ Counting grids are engraved into two polished surfaces at the central station.

➤ **"Neubauer - improved" chamber** with grid consists of 3 x3 large squares with areas of 1 mm² each.

➤ **Alternative 2 chambers:**

➤ **"Thoma - new" chamber** with 0,1 mm depth. The grid covers an area of 1,1 x 1,1 mm².

➤ Supplied in a polystyrene box together with two haemocytometer cover glasses.

catalogue number	product descriptions	pack quantity
075.03.001	Neubauer Improved	1 piece
075.03.002	Thoma - New	1 piece

CELL COUNTER - "mechanical"

➤ Multi use mechanical counter with maximum counting capacity up to 9999 for counting blood cells, bacterial colonies, drops of liquids, or any repetitive action.

➤ Featured a quick reset knob, lens window for easy reading, and finger ring for a secure grip.

➤ Sturdy and chrome finished metal housing offers long life cycle.



catalogue number	pack quantity
081.14.002	1 piece



CELL COUNTER - "digital"

➤ Multi-use digital counter with maximum counting capacity up to 9999 for counting blood cells, bacterial colonies, drops of liquids, or any repetitive action.

➤ Featured a quick reset knob, lens window for easy reading, and finger ring for a secure grip.

➤ Sturdy and chrome finished metal housing offers long life cycle.

catalogue number	pack quantity
081.14.001	1 piece

COVER GLASSES

- Manufactured from optical grade, hydrolic 1 class borosilicate glass according to DIN ISO 8255 standard.
- Fully automatic production cycles ensure dust-free, absolutely clean cover glasses with excellent flatness and smooth surfaces.
- With their thickness varying 0,13 mm - 0,17 mm they guarantee perfect clearness.
- Their edges are cut with highest precision assuring flawless results.
- **Alternative 2 glasses:** ➤ economical quality cover glasses
➤ superior quality cover glasses

dimensions	economic quality	box quantity	superior quality	box quantity	pack quantity
18 x 18 mm	075.00.001	10 packs	075.01.001	10 packs	100 pcs
20 x 20 mm	075.00.002	10 packs	075.01.002	10 packs	100 pcs
22 x 22 mm	075.00.003	10 packs	075.01.003	10 packs	100 pcs
24 x 24 mm	075.00.004	10 packs	075.01.004	10 packs	100 pcs
24 x 32 mm	075.00.005	10 packs	075.01.005	10 packs	100 pcs
24 x 50 mm	075.00.006	5 packs	075.01.006	10 packs	100 pcs
24 x 60 mm	075.00.007	5 packs	075.01.007	10 packs	100 pcs



SLIDES

- Manufactured from optical grade, hydrolic 3 class soda lime glass according to DIN ISO 8037-1 standard.
- Fully automatic production cycles ensure dust-free, absolutely clean cover glasses with excellent flatness and smooth surfaces.
- With their extremely flat pre-cleaned surfaces free of dust and oil and their 1 mm thickness they assure flawless results.
- **Alternative 2 slides:** ➤ economical quality cover glasses
➤ superior quality cover glasses
- Superior quality color coded slides has ground edges with 45° edge angle.
- Color coded with 5 different colors enables fast, easy identification.



Superior quality color coded slides with 5 different colors provide easy identification of samples.



Superior quality slides have ground edges with 45° edge angle.



economic quality	superior quality	product descriptions	edge angle	color code	pack quantity	box quantity
075.05.001		Cut edges, Plain	90° Degree	---	50 pieces	50 packs
075.05.002		Cut edges, Frosted one end one side	90° Degree	---	50 pieces	50 packs
075.05.003		Ground edges, Plain	90° Degree	---	50 pieces	50 packs
075.05.004		Ground edges, Frosted one end two side	90° Degree	---	50 pieces	50 packs
	075.02.005	Ground edges, Color Frosted	45° Degree	white	50 pieces	50 packs
	075.02.006	Ground edges, Color Frosted	45° Degree	yellow	50 pieces	50 packs
	075.02.007	Ground edges, Color Frosted	45° Degree	green	50 pieces	50 packs
	075.02.008	Ground edges, Color Frosted	45° Degree	pink	50 pieces	50 packs
	075.02.009	Ground edges, Color Frosted	45° Degree	blue	50 pieces	50 packs



SLIDE BOX - "with hinged lid"

- Manufactured from robust polypropylene providing perfect storage and transportation of slides.
- Moulded grooved slide slots with numerical index hold the microscope slides at the position.
- Hinged lid offers safe closing and easy opening. Once the lid is closed the box interior is protected from environmental effects.



Different color options offers easy slide classification and minimize the possibility of sample mix-up.

slide box for 25 slides	slide box for 50 slides	slide box for 100 slides	box color	pack quantity
076.02.000W	076.02.001W	076.02.002W	white	1 piece
076.02.000B	076.02.001B	076.02.002B	blue	1 piece
076.02.000P	076.02.001P	076.02.002P	purple	1 piece
076.02.000R	076.02.001R	076.02.002R	ruby	1 piece
076.02.000O	076.02.001O	076.02.002O	orange	1 piece



SLIDE BOX CABINET

- Manufactured from acrylate with 5 slide box compartment.
- They offer practical solutions for storing the slide boxes on top of each other. Can be linked to each other by magnetic fixators to form longer working station.

catalogue number	pack quantity
076.02.101	1 piece



SLIDE BOX - "with steel latch"

- Manufactured from robust ABS providing perfect storage and transportation option of slides.
- Moulded grooved slide slots with numerical index hold the microscope slides at the position.
- Hinged lid with steel latch offers safe closing and easy opening. Once the lid is closed the box interior is protected from environmental effects.



catalogue number	slide capacity	box color	pack quantity
076.02.012W	100 slides	white	1 piece
076.02.012B	100 slides	blue	1 piece
076.02.012R	100 slides	ruby	1 piece
076.02.012P	100 slides	purple	1 piece
076.02.012O	100 slides	orange	1 piece





SLIDE MAILERS

- Manufactured polypropylene for storing and shipping of slides.
- Flat mailers can carry 1 or 2 or 3 slides depending on the type.
- Easy-to-close snaps hold the mailers always securely closed while keeping the interior away from dust, moisture and other environmental effects.
- Box mailer with slotted channels can hold 5 slides separated from each other.
- The hinged lid protects the mailer interior from dust and other environmental effects.

catalogue number	slide capacity	pack quantity	box quantity
076.05.001	1 slide	1 piece	100 pieces
076.05.002	2 slides	1 piece	100 pieces
076.05.003	3 slides	1 piece	100 pieces
076.05.004	5 slides	1 piece	100 pieces



Different color option offers easy slide classification and minimize the possibility of sample mix-up.



Removal of the slides are done easily by pressing the edge of the slide which lifts the other side of the slide.



SLIDE WALLETS - "cardboard"

- Manufactured from thick and robust cardboard with 20 pieces slide capacity. Consists of 2 parts: A base for slide compartments and two folding covers.
- Unique recessed design of the slide compartments avoids the risk of covers touching the slides.
- Alphanumerical index on slide rows enables easy identification of slide positions.
- Printed marking area on side walls of the covers enables easy marking and labelling.
- Slide compartments have finger slots for easy and fast removal of the slides.
- Cardboard hinged covers protect the slides from environmental effects.






SLIDE WALLET RACK



- Manufactured from thick and robust acrylic for easy and safe storage of 5 slide wallets. For easy insertion and removal of the slide wallets also protects the wallet interior.

- Easily stackable due to the body form for reducing storage space.

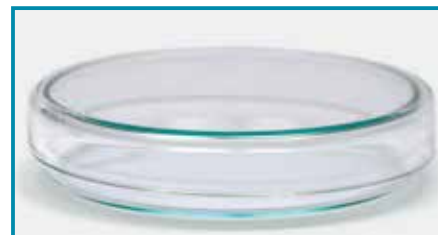
catalogue number	pack quantity
076.01.003	1 piece

catalogue number	dimension	rack color	pack quantity
076.01.001W	205x340x10 mm	white 	1 piece
076.01.001B	205x340x10 mm	blue 	1 piece
076.01.001R	205x340x10 mm	red 	1 piece
076.01.001Y	205x340x10 mm	yellow 	1 piece
076.01.001G	205x340x10 mm	green 	1 piece

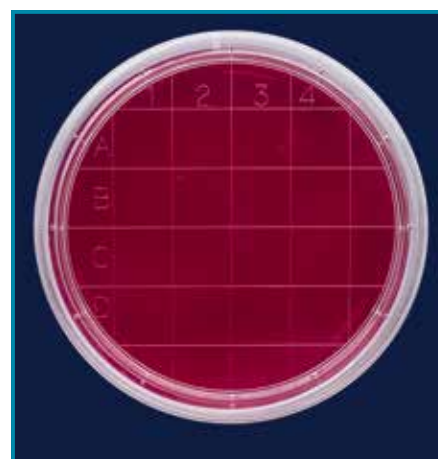


PETRI DISHES - "glass"

- Manufactured from heat resistant glass with counter sinking process which guarantees bubble-free dishes.
- Lids perfectly fit to the body enabling easy handling.
- Extremely flat bottom base guarantees an even media dispersion and uniform cell growth.
- Fire polished body and lid edges enable safe use by reducing the risk of breakage.



catalogue number	diameter	height	pack quantity
081.01.060	60 mm	15 mm	18 pieces
081.01.080	80 mm	15 mm	18 pieces
081.01.100	100 mm	20 mm	18 pieces
081.01.120	120 mm	20 mm	18 pieces
081.01.150	150 mm	25 mm	18 pieces



PETRI DISHES "contact" - "rodac"

➤ Manufactured from optically clear, transparent polystyrene for determining bacterial contamination of surfaces such as the skin and all other surfaces. Also facilitates the counting of colonies.

➤ Featured with a moulded grid at the bottom which enables the identification of the detected contamination / cm².

➤ Aseptic petri dishes are manufactured in germ-free, class 10.000 sterile production areas with extreme sterility control.

➤ Sterile petri dishes are manufactured in germ-free, class 10.000 sterile production areas and then reesterilized by gamma irradiation.

➤ Sterile petri dishes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.

PETRI DISHES - "polystyrene" - "sterile"

➤ Manufactured from optically clear, transparent polystyrene for multiple use in microbiology and bacteriology. Manufactured by fully automatic, human touch free machines.

➤ Ideal body form guarantees excellent use with automatic filling machines. Vented lids enable consistent and effective practice.

➤ **Alternative 2 dishes:** ➤ Aseptic petri dishes
➤ Gamma sterile petri dishes

➤ Aseptic petri dishes are manufactured in germ-free, class 10.000 sterile production areas with extreme sterility control.

➤ Sterile petri dishes are manufactured in germ-free, class 10.000 sterile production areas and then reesterilized by gamma irradiation. Sterile petri dishes are supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.

diameter x height	section	clean room produced	box quantity	gamma sterilized	box quantity
60 x 15 mm	1 section	081.02.061	500 pieces	081.02.161	500 pieces
90 x 17 mm	1 section	081.02.091	500 pieces	081.02.191	360 pieces
90 x 17 mm	2 section	081.02.092	500 pieces	081.02.192	360 pieces
90 x 17 mm	3 section	081.02.093	500 pieces	081.02.193	360 pieces
90 x 17 mm	4 section	081.02.094	500 pieces	081.02.194	360 pieces
120 x 17 mm	1 section	081.02.121	500 pieces	081.02.221	400 pieces

petri dishes clean room produced	diameter x height	pack quantity	box quantity
081.04.060	66 x 15 mm	10 pieces	500 pieces

petri dishes gamma sterilized	diameter x height	pack quantity	box quantity
081.04.160	66 x 15 mm	10 pieces	500 pieces

COLONY COUNTER



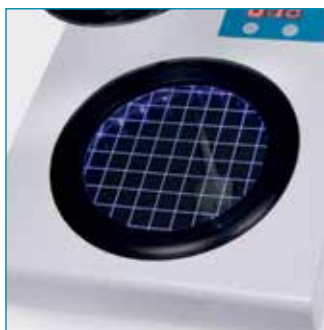
➤ Ideal for fast and practical manual counting of colonies on any agar in petri dishes. The versatile unique design accepts petri dishes from 40 mm to 100 mm.

➤ Intelligent counter with LED digitron display allows fast and precise count of the colonies between 0 - 999. Numericals on the counter can be adjusted backward and forward manually.

➤ Featured with a 90 mm high quality magnifier with 3x / 9x magnification power magnifier attached to a goose neck, flexible holder.

➤ Flexible holder enables both magnifying lens position and illumination angle adjustable in multiangular axes.

➤ Counting table is featured with a backward LED illumination with variable light control. Circular LED illumination system offers a shadow and flicker free illumination.



Circular LED illumination system offers a shadow and flicker free illumination without heat development with optimal concentration of light.

1 square centimeter cross sectional template of the counting plate guarantees reliable counting.



Marking is done by a "felt pin pen" which is connected to the system by cable.

Intelligent counter with LED digitron display allows fast and precise count of the colonies between 0 - 999.

catalogue number	for petri dishes	external dimensions	pack quantity
603.11.001	40 - 100 mm dia.	210 x 255 x 160 mm	1 piece

PETRI DISH BASKET - "st. steel"



➤ Manufactured from high quality, chemical and corrosion resistant AISI 304 grade stainless steel.

➤ Ideal tool for transportation and autoclaving of petri dishes with maximum 100 mm diameter.

➤ Petri dish basket can carry maximum 10 petri dish.

catalogue number	pack quantity
081.20.001	1 piece



Sealing tape for petri dishes can be seen on catalogue page no 74.

PETRI DISH STAND



➤ Manufactured from acrylic for safe storing, transportation of petri dishes. Also very useful during inoculation and incubation.

➤ Also provides streamline benchtop sample processing and protects petri dishes from dust, moisture and other environmental effects.

➤ Center divider provides space for labelling and incorporates built in finger grip for easy handling. Can be linked to each other by the magnetic fixators at both sides.

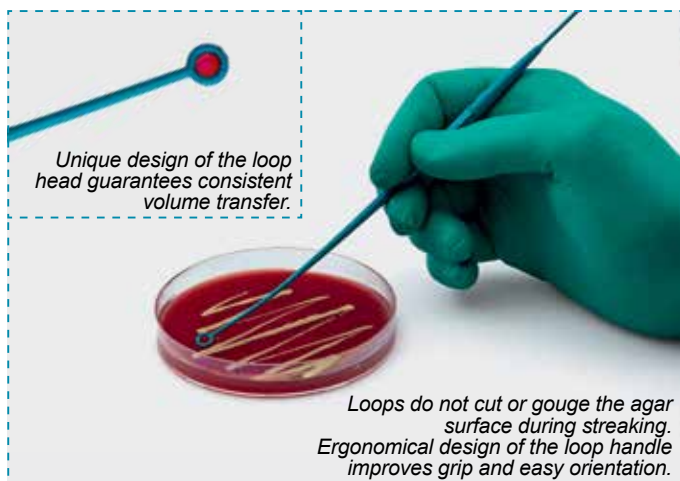
catalogue number	for petri dish Ø	dish capacity	pack quantity
081.13.060	60 mm	30	1 piece
081.13.090	90 mm	60	1 piece

INOCULATION LOOPS - "HIPS" - "sterile"



➤ Aseptic inoculation loops are manufactured from HIPS in germ-free, class 10.000 sterile production areas.

➤ Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.



➤ Highly flexible body form enables comfortable and efficient planting and avoids streaking of cultures.

➤ Anti-static property of the raw material eliminates problems caused by electrostatic effects and guarantees consistent complete liquid transfer.

➤ Hexagonal loop shaft improves grip, assists orientation and makes diluting and streaking easy.

➤ Hexagonal loop handle also enables orientation of the loop head with a fixed angle.

➤ Ultra smooth loop surfaces allow easy streaking and offer problem-free planting without the risk of cutting or gauging the agar surface.

➤ Double use loops have one side a fine tip specially designed for holding, transporting and counting colonies. The loop at the other for streaking in petri dishes.

➤ Color coded loops enable fast, easy and practical identification of loop type.

catalogue number	loops specification	loop color	pack quantity	box quantity
082.01.001	one end needle / one end 1 μ l	light blue	10 pieces	1000 pieces
082.01.002	one end needle / one end 10 μ l	blue	10 pieces	1000 pieces
082.01.003	one end 1 μ l / one end 10 μ l	dark blue	10 pieces	1000 pieces

INOCULATING TURNTABLE

➤ Light weight but robust body manufactured from aluminium and featured with non-skid feet.

➤ Manually operated turntable guarantees smooth and easy rotation on both directions. Also enables easy and fast allocation of bacteria across petri dish surface.

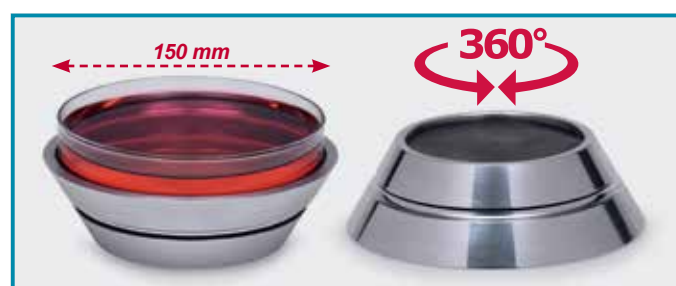
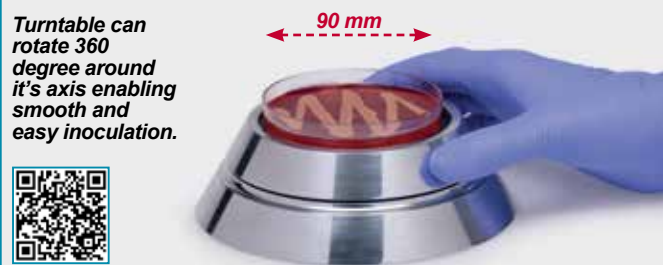
➤ Double sided construction accomodates petri dishes from 60 to 150 mm diameter by inverting the turntable.

➤ Ball bearings provide a smooth and effortless spinning ensuring rapid inoculation steps and extended operation life.

➤ The silicone pad holds the petri dishes firmly and keeps the dish allways in center position during inoculation steps.

➤ The non-skid pad can easily be removed for fast and efficient cleaning.

catalogue number	pack quantity
081.10.001	1 piece





CELL SPREADER - "HIPS" - "sterile"

- Aseptic cell spreader is manufactured from HIPS in germ-free, class 10.000 sterile production areas.
- Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Ultra smooth, edgeless designed, triangular spreading head allows easy and problem-free spreading without the risk of cutting or gauging the agar surface.
- Highly flexible body form enables comfortable and efficient spreading and avoids streaking of cultures.
- Rippled designed ergonomic handle improves gripping efficiency and assists easy orientation of the spreader head.
- Handle flexes slightly under pressure allowing the triangular head for perfect, evenly distributed and uniform pressure on the agar surface.
- Individually single packed with lot number, production date and expiry date printed on the package.



Handle flexes slightly under pressure allowing the triangular head for perfect, evenly distributed and uniform pressure on the agar surface.

catalogue number	pack quantity	box quantity
082.03.001	1 piece	100 pieces



INOCULATION LOOP HANDLE

- The loop shaft is manufactured from nickel plated brass.
- The shaft of the loop handle is insulated by PVC for further protection of user against heat.
- Featured with a screw fastening end for tight fastening of the loops used.
- Handle guarantees easy holding option and fatigue-free application.

catalogue number	length	pack quantity
082.02.003	200 mm	1 piece



INOCULATION LOOP - "stainless steel"

- These durable loops are manufactured from nickel-chrome metal wire with twisted wire strands.
- Highly flexible body form enables comfortable and efficient planting and avoids streaking of cultures.
- Ultra smooth loop surfaces allow easy streaking and offer problem-free planting without the risk of cutting or gauging the agar surface.
- Can be heated up to 1200°C and can be cooled rapidly after heat sterilisation.

catalogue number	length	pack quantity
082.02.001	50 mm	10 pieces

CELL SPREADER - "stainless steel"

- Manufactured AISI 304 grade stainless steel. Suitable for sterilization by autoclaving or by direct flame.
- Smooth, rounded surfaces prevents any cutting or gouging of agar surface during application.
- Triangular formed spreader head enables even spreading of liquid samples all over the surface.

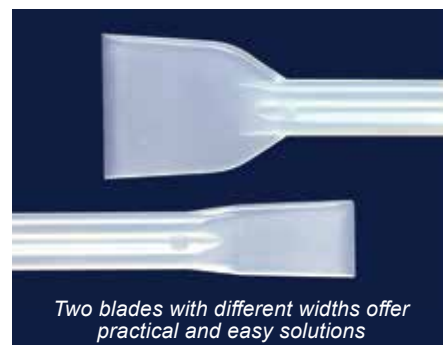
catalogue number	triangular bar width	handle length	pack quantity
082.03.003	32 mm	190 mm	1 piece



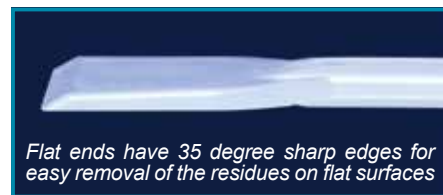


CELL LIFTER - "for cell culture" - "sterile"

- Manufactured from polypropylene and specially designed for scraping of attached cells on culture dishes or plate surfaces. Ideal for manual harvesting of cells.
- Manufactured in germ-free, class 10.000 sterile production areas and then resterilised by gamma irradiation.
- Supplied with a certificate of "DNase, RNase & pyrogen free" product.
- Featured with two flat ends with different widths on a single handle.
- Two blades with different widths offer practical and easy solutions during sample scraping and collection.
- Specially the wide blade end offers ideal solutions for dish and 6 well plates.
- Flat ends have 35 degree sharp edges for easy removal of the residues on flat surfaces.
- Individually single packed with lot number, production date and expiry date printed on the package.



Two blades with different widths offer practical and easy solutions



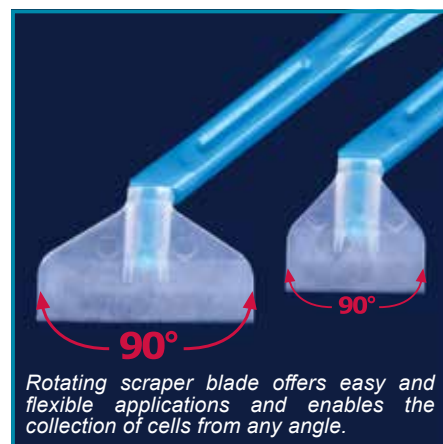
Flat ends have 35 degree sharp edges for easy removal of the residues on flat surfaces

catalogue number	total length	narrow end width	large end width	packing specification	pack quantity
121.01.001	245 mm	12 mm	23 mm	single pack	100 pieces



CELL SCRAPERS - "for cell culture" - "sterile"

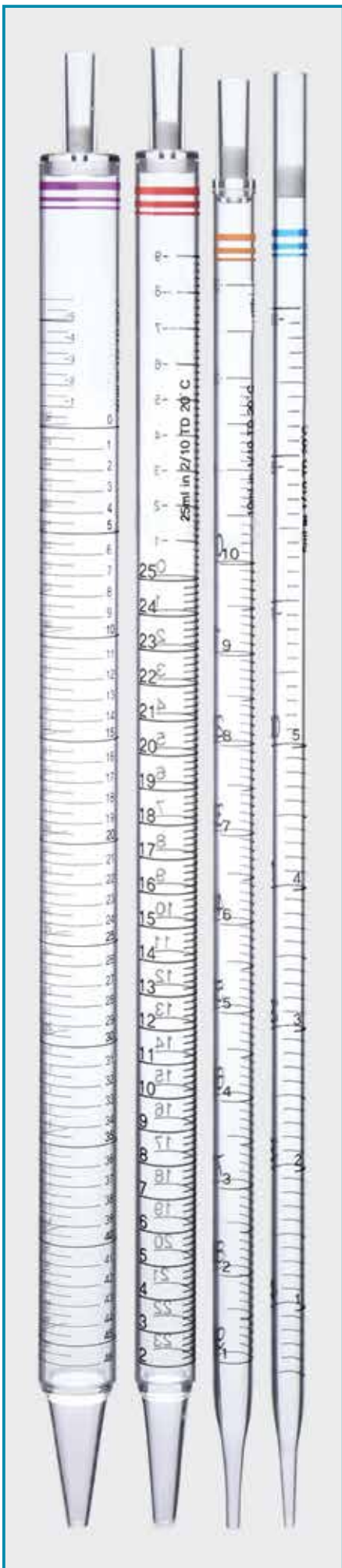
- Specially designed to facilitate collection of attached cells on culture dishes.
- Manufactured in germ-free, class 10.000 sterile production areas and then resterilised by gamma irradiation.
- Supplied with a certificate as a guarantee of "DNase, RNase & pyrogen free" product.
- Handle is manufactured from ABS. Scraper head is manufactured from flexible polyethylene.
- Scraper blade rotates around the it's axis enabling easy and flexible applications.
- The rotating blade also guarantees the efficient collection of cells from any angle.
- Ultra smooth blade surfaces offer problem-free collection without the risk of cutting or gauging the agar surface.
- Hexagonal shaft improves grip, assists orientation and makes diluting and streaking easy.
- Hexagonal handle also enables orientation of the loop head with a fixed angle.
- Individually single packed with lot number, production date and expiry date printed on the package.



Rotating scraper blade offers easy and flexible applications and enables the collection of cells from any angle.

catalogue number	total length	box quantity
121.11.023	230 mm	150 pieces
121.12.030	300 mm	150 pieces

PIPETTES - "serological" - "polystyrene"



- Manufactured from virgin polystyrene with excellent optical transparency.
- Sterilized with gamma irradiation. Free of RNase, DNase, DNA and pyrogene.
- Unique design offers a smooth interior which prevents cell-hanging and clumping inside the pipette wall.
- Stable and break-resistant pipette tip offers constant the reproducible flow in each time.
- Optimised mouthpiece perfectly fits to all types of pipette pumps and balls.
- Filter plug at the mouthpiece prevents overflow of liquid and also eliminates contamination.
- Color coded ring mark at suction stem allows fast identification and sourcing.
- The sharp, black, highly visible permanent graduations prevent ambiguity and guarantee precise reading and accurate dispensing.
- Reverse graduations show actual removed or remaining volumes on all pipettes larger than 1 ml volume.
- Pipettes are supplied individually wrapped in fiber-free color coded paper as easy-to-open packing.



Volume identification by color coding on pipette enables easy volume identification during working.



Filter plug at the mouthpiece of the pipette prevents exterior effects and minimize contamination.



Accurate volume identification by highly visible bidirectional graduation printed on pipette side body.

Ascending and descending scales facilitate reading both dispensing and remaining volume.

catalogue number	pipette volume	color code	box quantity
083.13.001	1 ml	yellow	500 pieces
083.13.002	2 ml	green	500 pieces
083.13.005	5 ml	blue	200 pieces
083.13.010	10 ml	orange	200 pieces
083.13.025	25 ml	red	150 pieces
083.13.050	50 ml	purple	100 pieces
083.13.100	100 ml	pink	50 pieces

RACK - "for pipettes"

- Manufactured from acrylic for easy organisation of all kind of pipettes.
- 4 shelves guarantee easy and fast reach of all pipettes between 1 ml to 50 ml size within arm's reach.
- Angled design of the pipette shelves prevents the risk of pipettes falling out even the shelf is fully filled.

Other technical specifications can be seen at catalogue page no 15.





STAINING JARS "Schifferdecker"

- Manufactured from heavy walled soda glass for holding microscope slides horizontally.
- Supplied together with a glass lid.
- Offers space for 10 individual microscope slides or 10 pairs of slides adjacently back-to-back.

catalogue number	dimensions	pack quantity
073.03.001	87x74x40 mm	1 piece



STAINING JARS "Hellendahl"

- Manufactured from heavy walled soda glass for holding microscope slides vertically.
- Supplied together with a glass lid.
- Offers space for 8 individual microscope slides or 8 pairs of slides adjacently back-to-back.

catalogue number	dimensions	pack quantity
073.01.001	60x60x105 mm	1 piece



STAINING JAR "Macro"

- Manufactured from heavy walled soda glass for using with a stainless steel slide holding rack.
- Supplied with a lid that provides safe closure of the jar content during non-use.
- Stainless steel staining rack is not supplied together with the jar.

catalogue number	dimensions	pack quantity
073.05.001	105x90x75 mm	1 piece



TISSUE BASE MOULDS

- Manufactured from stainless steel for easy removal of paraffin inclusions.
- They enable easy and precise positioning of the specimens during application.

tissue base mold	external dimensions	internal dimensions	specifications	pack quantity
074.07.001	55 x 38 x 10 mm	7 x 7 x 6 mm	biopsy & hystology	5 pieces
074.07.002	55 x 38 x 10 mm	15 x 15 x 6 mm	biopsy & hystology	5 pieces
074.07.003	55 x 38 x 10 mm	37 x 24 x 6 mm	standard	5 pieces



STAINING JAR RACK

- Manufactured from stainless steel to hold and carry microscope slides.
- Featured with inserts that can hold 20 single slides in horizontal position.
- Long handle offers easy and safe hold.

catalogue number	dimensions	pack quantity
073.06.001	85x70x20 mm	1 piece

EMBEDDING CASSETTES - "without lid"

- Manufactured from POM which is fully resistant to histological solvents.
- The unique design allows perfect fit to all microtome chuck adapters.
- Slanted marking area on front side enables easy marking and labelling.

cassette without lid	color	pack quantity	box quantity
074.01.001	white	500 pieces	5000 pieces
074.01.002	yellow	500 pieces	5000 pieces
074.01.003	green	500 pieces	5000 pieces
074.01.004	pink	500 pieces	5000 pieces
074.01.005	blue	500 pieces	5000 pieces

CASSETTE LID

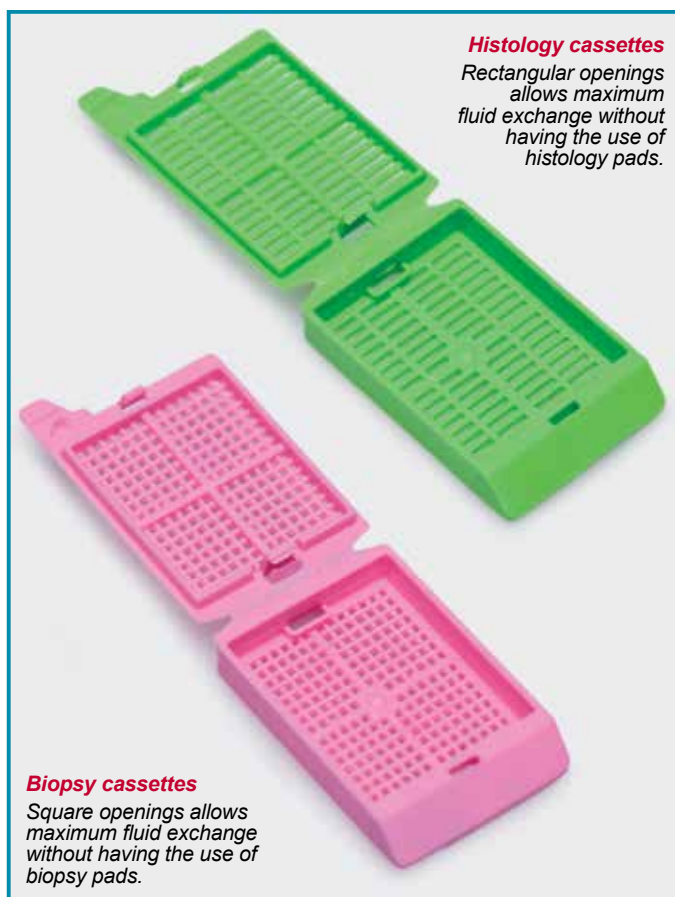
- Manufactured from high quality, chemical and corrosion resistant AISI 304 grade stainless steel.
- Perforated surface offers the optimal liquid diffusion.
- The body form fits perfectly to the cassettes and guarantees tight closure.

catalogue number	pack quantity
074.02.001	5 pieces

EMBEDDING CASSETTES - "with lid"

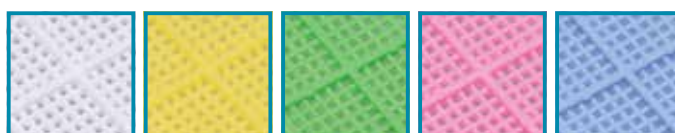
- Manufactured from POM which is fully resistant to histological solvents.
- **Histology cassettes with rectangular openings**
- **Alternative 2 cassettes:**
 - **Biopsy cassettes with square openings**
- The unique design allows perfect fit to all microtome chuck adapters.
- The efficient flow-through slots maximize the liquid exchange and also ensure proper drainage.
- The unique design of the lids can be opened and closed as often as necessary without getting loose.
- Lids always relock securely without any risk of specimen loss.
- Slanted marking area with 45° angled on front side enables easy marking and labelling.
- Histology cassettes with rectangular openings provide maximum liquid exchange and does not require use of a pad.
- Biopsy cassettes with square openings provide maximum liquid exchange and does not require use of a pad.

cassette histology	cassette biopsy	color	pack quantity	box quantity
074.03.001	074.04.001	white	500 pieces	5000 pieces
074.03.002	074.04.002	yellow	500 pieces	5000 pieces
074.03.003	074.04.003	green	500 pieces	5000 pieces
074.03.004	074.04.004	pink	500 pieces	5000 pieces
074.03.005	074.04.005	blue	500 pieces	5000 pieces



Histology cassettes
Rectangular openings allows maximum fluid exchange without having the use of histology pads.

Biopsy cassettes
Square openings allows maximum fluid exchange without having the use of biopsy pads.





MICRO - HAEMATOCRIT TUBES

➤ Manufactured by fully automatic machines according to ISO 12772 and BS 4316-68 standards with 75 mm length and 0,2 mm wall thickness.

➤ Alternative 2 tube types:

➤ Non-heparinised tubes with blue color tip.

➤ Heparinised tubes with red color tip.

➤ Interior surface of heparinised tubes are covered with sodium heparinite.

catalogue number	tube type	vial quantity	box quantity
088.02.001	heparinised	100 pcs	10 vials
088.02.002	non-heparinised	100 pcs	10 vials



MICRO - HAEMATOCRIT TUBE WAX

➤ Offers fast and safe solutions for sealing of the micro haematocrit tube ends.

➤ Can carry 48 tubes with 2 x 24 array.

➤ Numerical index on the tray provides easy identification of tube positions

➤ This non drying sealing compound has a life time of 3 years at room conditions.

catalogue number	tube capacity	pack quantity
088.03.001	48 tubes	10 pieces



Lancets are very incisive and have very sharp edges which penetrates into the skin very easily.

BLOOD LANCETS "manual"

➤ Manufactured from medical grade stainless steel.

➤ Featured with very sharp blade end that penetrates into the skin easily without pain.

➤ Single use and gamma sterilized and individually packed.

catalogue number	pack quantity	box quantity
088.01.001	200 pieces	50 pack

BLOOD LANCETS - "automatic"

➤ Offers perfect protection since the needle is always been fully shielded "before" and "after" use.

➤ Featured with ultra sharp needle with high speed penetration of 1,8 mm depth.

➤ Single use and gamma sterilized and individually packed.

catalogue number	pack quantity	box quantity
088.02.003	100 pieces	5 packs



Twist off the protective safety cap first.



Hold the lancet firmly on the finger site



Press the release button to activate the lancet



Gently press the finger to let the blood drop out