

Products for Biotechnology

Filtertips and PCR-Tubes

PCR-and Deep-Well- Plates

Racksystems and Histology

Cryoboxes and Storage-Systems

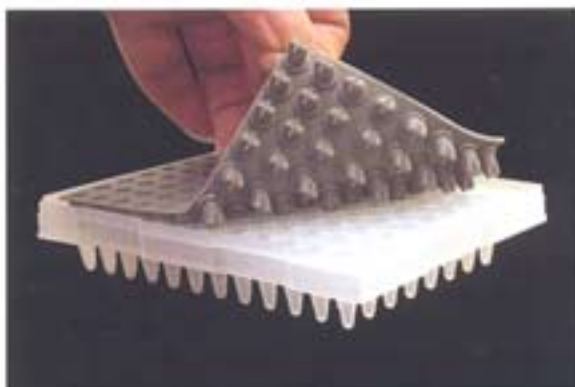
Autoradiography

Electrophoresis

DNA-Workstation, Thermocycler and Shaking-Incubatores

Centrifugation – Heating – Cooling – Mixing – Rotation

DNA-Purification – Microbeads – Flowcytometry – Cellseparation



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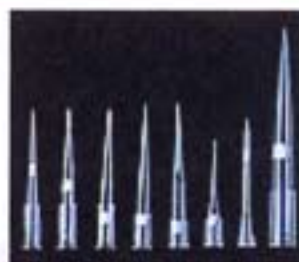


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Quali - Tips, sterile Filter Tips in racks

Our hydrophobic filter tips eliminate aerosols completely. The tips are sterilized by gamma-radiation and are important to avoid cross-contaminations of sample fluids or vapors from contacting the pipettors shaft. Especially important is the use of filter tips with all PCR-techniques, where contamination with unwanted DNA through the pipettor can lead to wrong results. Also the filter tip protects the pipettor, if you are handling with radioactive, corrosive or biohazardous samples. The tips have the beveled form for absolute precision and are certified DNase-, RNase- and pyrogen free!



The picture shows the tips in the following order starting from the left side: A20S – A50S – A100S – A200S – A350S – A400S – A1000S

Cat. #	Volume	Compatibility	Pack size
A300S	0,1 – 10µl	Gilson P2, P10	10 racks of 96 tips
A300SLang	0,1 – 10µl	Gils.P2, P10, Epp. 0,5–10µl	10 racks of 96 tips
A250S	0,1 – 2,5µl	Eppendorf 0,1–2,5µl,P2	10 racks of 96 tips
A400S	0,5 – 10µl	Eppendorf 0,5–10µl	10 racks of 96 tips
A20S	0,5 – 20µl	Universal	10 racks of 96 tips
A50S	1,0 – 50µl	Universal	10 racks of 96 tips
A100S	1,0 – 100µl	Universal	10 racks of 96 tips
A150S	1,0 – 150µl	Universal	10 racks of 96 tips
A200S	1,0 – 200µl	Universal	10 racks of 96 tips
A350S	1,0 – 300µl	Finn, Capp	10 racks of 96 tips
A1000S	100 – 1000µl	Universal	10 racks of 100 tips
A1250MA-S	100 – 1250µl	Matrix	12 racks of 96 tips

Quali - Tips, Filter Tips in bags

These filter tips feature same characteristics as above, but are not sterilized by gamma-radiation. They are produced and packed under clean room conditions and are also certified DNase-, RNase- und pyrogen free. If necessary the filter tips can be sterilized by autoclaving without damaging the filter using following procedure: At 120°C under 15 PSI for 10–15minutes. Do not exceed as excess exposure to autoclaving heat may cause decreased structural integrity.

Cat. #	Volume	Compatibility	Pack size
A30UB	0,1 – 10µl	Gilson,P2,P10,Biohit	1 Bag of 1000 tips
A40UB	0,5 – 10µl	Eppendorf 0,5–10µl	1 Bag of 1000 tips
A20UB	0,5 – 20µl	Universal	1 Bag of 1000 tips
A50UB	1,0 – 50µl	Universal	1 Bag of 1000 tips
A100UB	1,0 – 100µl	Universal	1 Bag of 1000 tips
A150UB	1,0 – 150µl	Universal	1 Bag of 1000 tips
A200UB	1,0 – 200µl	Universal	1 Bag of 1000 tips
A350UB	1,0 – 300µl	Finn, Capp	1 Bag of 1000 tips
A1000UB	100 – 1000µl	Universal	1 Bag of 1000 tips



Quali - MAXIMUM RECOVERY Filter-Tips with ultra-smooth surface, sterile in racks

With the emergence of PCR, HTS and DNA-Sequencing, reliable sample preparation and delivery methods have become a critical issue. MAXIMUM RECOVERY Tips show much better results than standard tips, fluid retained by the MAXIMUM RECOVERY Tips are produced through a modification of the original pp resin and do not include any silicons or additives. The Tips are certified to be free of DNase-, RNase- and pyrogen free.

Cat. #	Volume	Compatibility	Pack size
A300S-MR	0,1 – 10µl	Gilson P2, P10	10 racks of 96 tips
A400S-MR	0,5 – 10µl	Eppend.0,5–10µl	10 racks of 96 tips
A20S-MR	0,5 – 20µl	Universal	10 racks of 96 tips
A100S-MR	1,0 – 100µl	Universal	10 racks of 96 tips
A200S-MR	1,0 – 200µl	Universal	10 racks of 96 tips
A1000S-MR	100 – 1000µl	Universal	10 racks of 100 tips



VALUE LINE, sterile filtertips in racks

- DNase-, RNase-, pyrogen- and metal free
- Hydrophobe, additive free filtertips to eliminate aerosoles
- Graduated at 10, 50 and 100µl for the 20, 50, 100 and 200µl tip



Cat. #	Volume	Compatibility	Pack size
VL300S	0,1 – 10µl	Gilson P2, P10, Biohit, Rainin EDP-2	10 racks of 96 tips
VL400S	0,5 – 10µl	Eppend. 0,5–10µl, Socorex, Nichirio	10 racks of 96 tips
VL20S	0,5 – 20µl	Eppend. Gilson, Biohit, Brand, Socorex	10 racks of 96 tips
VL100S	1,0 – 100µl	Eppend. Gilson, Biohit, Brand, Socorex	10 racks of 96 tips
VL180S	1,0 – 180µl	Eppend. Gilson, Biohit, Brand, Socorex	10 racks of 96 tips
VL230S	1,0 – 230µl	Eppend. Gilson, Biohit, Brand, Socorex	10 racks of 96 tips
VL1000S	100 – 1000µl	Eppend. Gilson, Biohit, Brand, Socorex	10 racks of 96 tips

Quali – Robotic Filter Tips

Our robotic filter tips are engineered to the exact dimensions of OEM tips to ensure automation compatibility. The robotic filter tips are offered in different volume sizes for Beckman robots. They ensure an airtight seal to your robotic system for accurate dispensing and are as our other filter tips certified DNase-, RNase- and pyrogen free. The robotic filter tips are „low retention“ tips, to make sure that full amounts of samples like DNA or Proteins are captured for more reliable results.

Cat. #	Volume	Compatibility	Packaging
ABB-20S	20µl	Beckman Biomek	50 Racks; 96 tips
ABB-50S	50µl	Beckman Biomek	50 Racks; 96 tips
ABB-180S	180µl	Beckman Biomek	50 Racks; 96 tips
ABM-50S	50µl	Beckman Multimek	50 Racks; 96 tips
ABM-200S	200µl	Beckman Multimek	50 Racks; 96 tips



Quali – Micro Volume Tips and beveled Tips

For many applications, especially in molecular biological and immunological applications, the quality and accuracy of a tip is very important. With our tips you get the highest available quality and reproducibility for your experiments:

- **the Chemistry:** 99,9% pure polypropylen, metall free, and free of lubricants, dyes or fillers
- **the Production:** in high diamond polished forms without use of contaminating, releasing fluids during the manufacturing, which results in a transparent product and reduces the adherence of liquid to the surface.
- **the tip-form:** exact fitting to pipettes – exact orifice and transparency.
- **the Biology:** DNase-, RNase-, pyrogen free
- **the bevel:** the angle on our beveled tips reduces the surface area of the tip orifice with the receiving vessel. This angle combined with an ultra-thin orifice reduces the effect of liquid samples creeping up the side of the tip (capillary effect). By reducing this capillary effect, our tips dispense more accurately.
- **the Compatibility:** the bevelled tips fit in with a wide range of pipettors and are ideal for labs with multiple brands of pipettors. The universal grip design and the flexible material with a series of brands produce a positive seal.

GC.TIP 0,1–10µl: Gilson P2 & P10, Eppendorf Res./Ref. 0,1–2,5µl & 10µl, Finn 2µl, Biohit Multichannel 10µl, Benchmate 2 & 10µl

EC.TIP 0,5–20µl: Eppendorf Res./Ref. 0,5–10µl, Fin 2µl, Biohit Multichannel 10µl,

T002/T004: universal fitting with all current pipettes

T005 (300µl) Eppendorf Res. 20–300µl, Finn Multichannel 50–300µl, Capp, Biohit Multich.I 250µl



Cat. #	Volume / color	Pack size
GC.TIPS.BSI	0,1–10µl / clear	1 bag of 1000 tips
GC.TIPS.R	0,1–10µl / clear	10 racks of 96 tips
EC.TIPS.B	0,5–20µl / clear	1 bag of 1000 tips
EC.TIPS.R	0,5–20µl / clear	10 racks of 96 tips
T002B	1–200µl / yellow	1 bag of 1000 tips
T002B.R	1–200µl / yellow	10 racks of 96 tips
T005B	1–300µl / yellow	1 bag of 1000 tips
T005B.R	1–300µl / yellow	10 racks of 96 tips
T004B	100–1000µl / blue	1 bag of 1000 tips
T004BR	100–1000µl / blue	10 racks of 100 tips



Quali – Tips, low retention tips (formerly siliconized Tips)

Our „Low Retention“ tips replace the formerly siliconized tips. They are made from high pure polypropylene. The siliconized tips (200µl and 1000µl) are beveled to increase the precision. The „Low Retention“ is based on a new technology production, where no silicon is added during or after the production, which could disturb experiments. This process causes extremely smooth tips and minimizes liquid retention. The result is 60% better as with siliconized tips. This product gives the confidence, that the full amount of DNA, enzymes or proteins is captured for testing purposes and provides more reliable results.

The tips are fully autoclavable and certificated DNase-, RNase-, pyrogen- and metall free.

For compatibility take a look at the preceding page „Mikrovolume and bevelled“ – Tips

Cat. #	Volume / Color	Pack size
GC.TIPS.BSi	0,1–10µl / clear	1 bag of 1000 tips
GC.TIPS.RSi	0,1–10µl / clear	10 racks of 96 tips
EC.TIPS.BSi	0,5–20µl / clear	1 bag of 1000 tips
EC.TIPS.RSi	0,5–20µl / clear	10 racks of 96 tips
T002BSi	1–200µl / clear	1 bag of 1000 tips
T002B.RSi	1–200µl / clear	10 racks of 96 tips
T004BSi	100–1000µl / clear	1 bag of 1000 tips
T004BRSi	100–1000µl / clear	10 racks of 100 tips



Quali – Standard Tips, bevelled

With this product line we offer very economical tips for standard applications. We are offering the new tip VL700G with improved quality, with graduation for example. Standard yellow tips are offered as bulk packs only in bags of 1000 Tips and in racks. The blue tips are extra long (86mm), which allows to sample manipulation in deeper tubes.

The Tips are compatible with:

VL700G: Gilson P20,P100,P200, Nichirio, Socorex, Biohit Proline a.o.

VL004G: Gilson P1000, Biohit Proline, Eppendorf Res./Ref. 1000µl Biohit, Socorex, Brand a.o.

Cat. #	Volume / Color	Pack size
VL700G	1–200µl / yellow	1 bag of 1000 tips
VL700GR	1–200µl / yellow	10 Racks of 96 Tips
VL004G	100–1000µl / blue	1 bag of 1000 tips



StackRacks – Space Savers

Save time and space. Our most used tips are now also available as StackRacks. The used tips are „bevelled“, autoclavable, certified DNase-, RNase-, pyrogen free and very useful for multichannel pipettors. Easy to use: 5 Racks with 96 tips each are stacked together. Use the first one and find the next one ready to use below.

- The tips are certified DNase-, RNase-, pyrogen and metall free.
- The racks offer very good stability.
- The system is also suitable for multi channel pipettes.
- The system is completely autoclavable.

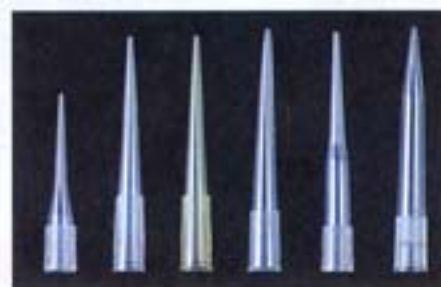
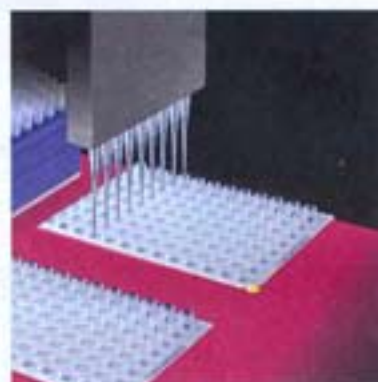
Cat. #	Volume / Color	Pack size
GC.TIPS.STK	0,1–10µl clear	10 stacks with 5 racks = 4,800 tips
T200-Y-STK	1–200µl	10 stacks with 5 racks = 4,800 tips



Quali – Robotic Tips, clear

- Our robotic tips are made to exact dimensions of OEM tips to ensure automation compatibility
- certified DNase-, RNase- and pyrogen free
- New: 250µl with a wide tip orifice and tips in 384-Well-Format

Cat. #	Tip type	Packaging
RB-B20	20µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R20	20µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS20	20µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RB-B50	50µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R50	50µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS50	50µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RB-B250	250µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R250	250µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS250	250µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RB-R1000	1000µl, Beckman Biomek	5 Racks; 72 Tips
RB-RS1000	1000µl, Beckman Biomek	5 Racks; 72 Tips, sterile
RBW-R250	250µl, B.Biomek, wide bore	50 Racks; 96 Tips
RBFX-R20	20µl, Beckman Biomek FX	50 Racks; 96 Tips
RBFX-RS20	20µl, Beckman Biomek FX	50 Racks; 96 Tips, sterile
RBFX-R384	0,5–30µl, Beckman Biomek FX	50 Racks; 384 Tips
RBFX-RS384	0,5–30µl, Beckman Biomek FX	50 Racks; 384 Tips, sterile
RBFX-R250	250µl, Beckman Biomek FX	50 Racks; 96 Tips
RBFX-RS250	250µl, Beckman Biomek FX	50 Racks; 96 Tips, sterile
RBM-R50	50µl, Packard Mini-/Plate Track	50 Racks; 96 Tips
RBM-R200	200µl, Packard Mini-/Plate Track	50 Racks; 96 Tips
RQ-R300	300µl, Qiagen	50 Racks; 96 Tips
RQ-R1100	1100µl, Qiagen	50 Racks; 96 Tips
RT-R50	50µl, Tecan GenMate	50 Racks; 96 Tips
RT-R250	250µl, Tecan GenMate	50 Racks; 96 Tips



Quali – Roboter Tips, Low Retention with and without Filter

- „The Low Retention“ is based on a new technology production, where no silicon is added during or after the production, which could disturb any experiments. This process causes extremely smooth tips and minimizes liquid retention.
- available also as sterile Filtertips to avoid cross-contaminations
- certified DNase-, RNase- und pyrogen free

Cat. #	Tip type	Pack unit
RB-B20-MR	20µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R20-MR	20µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS20-MR	20µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RB-B50-MR	50µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R50-MR	50µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS50-MR	50µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RB-B250-MR	250µl, Beckman Biomek	10 Bags; 1000 Tips
RB-R250-MR	250µl, Beckman Biomek	50 Racks; 96 Tips
RB-RS250-MR	250µl, Beckman Biomek	50 Racks; 96 Tips, sterile
RBFX-R20-MR	20µl, Beckman Biomek FX	50 Racks; 96 Tips
RBFX-RS20-MR	20µl, Beckman Biomek FX	50 Racks; 96 Tips, sterile
RBFX-R50-MR	50µl, Beckman Biomek FX	50 Racks; 96 Tips
RBFX-RS50-MR	50µl, Beckman Biomek FX	50 Racks; 96 Tips, sterile
RBFX-R250-MR	250µl, Beckman Biomek FX	50 Racks; 96 Tips
RBFX-RS250-MR	250µl, Beckman Biomek FX	50 Racks; 96 Tips, sterile
RBP-R50-MR	50µl, Packard Minitrack	50 Racks; 96 Tips
RBP-R200-MR	200µl, Packard Minitrack	50 Racks; 96 Tips
ABB20S-MR	20µl, Beckman Biomek	50 Racks; 96 Filtertips, sterile
ABB50S-MR	50µl, Beckman Biomek	50 Racks; 96 Filtertips, sterile
ABB180S-MR	180µl, Beckman Biomek	50 Racks; 96 Filtertips, sterile
ABFX20S-MR	20µl, Beckman Biomek FX	50 Racks; 96 Filtertips, sterile
ABFX50S-MR	50µl, Beckman Biomek FX	50 Racks; 96 Filtertips, sterile
ABFX180S-MR	180µl, Beckman Biomek FX	50 Racks; 96 Filtertips, sterile



RBFX and ABFX Line

Quali – Roboter Tips, conductive (black)

With the introduction of these tips we are corresponding to our client's multiple wishes. Conductive-black tips are now also available for Canberra Packard I, II und IIEX as well as Beckman Span 8. For the Beckman Span 8 we are also offering conductive-black sterile filtertips. All tips are certified DNase-, RNase- und pyrogen free.

Cat. #	Tip type	Pack unit
RBK-SP-20	20µl, Beckman Span-8	50 Racks; 96 Tips
RBK-SP-S-20	20µl, Beckman Span-8	50 Racks; 96 Tips, sterile
RBK-SP-50	50µl, Beckman Span-8	50 Racks; 96 Tips
RBK-SP-S-50	50µl, Beckman Span-8	50 Racks; 96 Tips, sterile
RBK-SP-250	250µl, Beckman Span-8	50 Racks; 96 Tips
RBK-SP-S-250	250µl, Beckman Span-8	50 Racks; 96 Tips, sterile
RBK-SP-FS-20	20µl, Beckman Span-8	50 Racks; 96 Filtertips, sterile
RBK-SP-FS-30	30µl, Beckman Span-8	50 Racks; 96 Filtertips, sterile
RBK-SP-FS-180	180µl, Beckman Span-8	50 Racks; 96 Filtertips, sterile
PMK-20	20µl, Packard Multiprobe	50 Racks; 96 Tips
PMK-S-20	20µl, Packard Multiprobe	50 Racks; 96 Tips, sterile
PMK-50	50µl, Packard Multiprobe	50 Racks; 96 Tips
PMK-S-50	50µl, Packard Multiprobe	50 Racks; 96 Tips, sterile
PMK-250	250µl, Packard Multiprobe	50 Racks; 96 Tips
PMK-S-250	250µl, Packard Multiprobe	50 Racks; 96 Tips, sterile
PMK-R250	250µl, Packard Multiprobe	50 Racks; 96 Tips
RQK-300	300µl, Qiagen	50 Racks; 96 Tips
RQK-S-300	300µl, Qiagen	50 Racks; 96 Tips, sterile
RQK-1100	1100µl, Qiagen	50 Racks; 96 Tips
RQK-S-1100	1100µl, Qiagen	50 Racks; 96 Tips, sterile
RTK-20	20µl, Tecan Style	50 Trays; 96 Tips
RTK-200	200µl, Tecan Style	50 Trays; 96 Tips
RTK-1000	1000µl, Tecan Style	50 Trays; 96 Tips
PMK-T20	20µl, Packard Multiprobe	50 Trays; 96 Tips
PMK-T250	250µl, Packard Multiprobe	50 Trays; 96 Tips



Packard Multiprobe konduktive

Quali – Tips, Gel -Loading Tips

Cell-Saver-Tips

The following capillary tips are useful for loading gels as well as for recovery of samples from small orifice containers or tubes. The Cell-Saver-Tips have a big tip orifice to make the transfer of sensitive cells possible and to avoid cell damages. When Standard- or „bevelled“- Tips are being used, Hybridoma, Hepatozyten or Makrophagen can be damaged, and „DNA-Shearing“ genetic DNA can be reduced. The Cell-Saver-Tips are also helpful during pipetting of highly viscose liquids. The clear Cell-Saver-Tips are being offered in bags with 1000 Tips each or rather in Racks if requested. The Tips fit all current Pipetted brands and are DNase-, RNase- und pyrogen free.

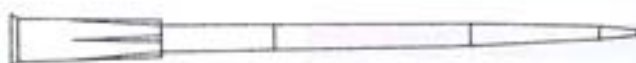


1 unit = 1000 Tips		
Cat. #	Volume	Pack unit
CSP250B	1– 200µl	1 Bag; 1000
CSP100B	100–1000µl	1 Bag; 1000

FlexTop -Tip, 200µl Spitze

A combination of a long tip with a very fine exit and a very soft Pipetted tip head. The soft Pipetted tip head fits the Pipetted cone perfectly. The secure fit ensures a constant filling and emptying, especially in combination with multiple channel pipettes.

Cat. #	Pack unit
FT-1000	1 Bags; 1000
FT-96	6 Racks; 96



Gel-Saver – Tip I:

0,5–10µl compatible with: Eppendorf 0–5–10µl, Eppendorf Reference 1–10µl Fix and 0,5–10µl Variable, Gilson P2, Oxford Benchmate; orifice o.d. 0,25mm, length of flexible capillary tip 22mm, total length 62mm

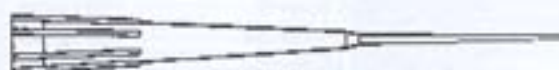
Cat. #	Pack unit
GSI025	1 Rack; 204 Tips



Gel Saver – Tip II

1–200µl compatible with: Eppendorf, Gilson, Finn, Biohit, orifice o.d. 0,54mm, length of flexible capillary tip 25mm

Cat. #	Pack unit
GSI054B	1 Bag; 1000 Tips
GSI054R	5 Racks; 204



Gel-Loading – Tips with flat tip, Multiflex

An ideal tip for gel loading in volume range from 0,1–10µl and 1–200µl. Available in two tip widths, the 0,37mm and the 0,17mm tip width is the optimum for loading sequencing gels. Fitting to commonly used pipettors, Dnase- Rnase free.

Cat. #	Volume/ Compatibility	Tip width/ form	Packagin
04NK10	0,1– 10µl/ P2, P10	0,37mm/ short	4 Racks; 200
02NK10	0,1– 10µl/ P2, P10	0,17mm/ short	4 Racks; 200
04N200	0,5–200µl/ Gils./Epp.	0,37mm/ long	4 Racks; 200
02N200	0,5–200µl/ Gils./Epp.	0,17mm/ long	4 Racks; 200
04N10	0,5– 10µl/ Eppendorf	0,37mm/ long	4 Racks; 200
02N10	0,5– 10µl/ Eppendorf	0,17mm/ long	4 Racks; 200



Akku-Pipettor-help -

This Pipettor-help can be used with all pipettes from 0,1 – 100ml. Three speed modes for suck- and blow out operation make the work easy and comfortable. The pipettor help offers for different applications „fast fill“ – „slow drain off“ „slow suck“ – „fast blow out“ and further options. Speed will be controlled by pressing the trigger. The Pipettor help is protected against overfilling, the fluid can flow out without motor support.

It is protected by filterelements, a charger is also in the delivery included.

Cat. #	Description	Volume
DPH-100	Pipettor-Help	0,1–100ml



Rota-Akku-Pipettor-help

This pipett filler combines a powerful motor with a lightweight design. The adjustable pipett nozzle rotates to three positions for maximum comfort (standard, 2–7,5°, 3–15°). Wide angle positions are better for limited space as under hoods, small-angle positions work better for benchtop applications. The Rota-Filler fits comfortably in right or left hand. Two triggers provide precise control in two operation modes, blow out or gravity. The filler accommodates glass and plastic pipettes from 1 to 100 ml, a hydrophobic 0,45 micron filter prevents contamination. The pipett nozzle is autoclavable. A red low-battery indicator signals when to recharge. The delivery includes: the filler with two replacement filters, a dual position charging stand and a magnetic/wall-mountable holder with screws.

Cat. #	Description	Volume
DRP-100	Rota-Filler	0,1–100ml



Denville-Pipettes „XL3000i“

Eight models cover all volumes from 0,1µl to 10ml. A continuously adjustable volumeter with digital readout allows simple and accurate dispensing. The robust construction along with the low thermal coefficient of the body of each XL3000i will prevent hand heat affecting sample measurements and reproducibility, even in prolonged usage. Being lighter as many other similar pipettes, they are even more comfortable to hold and operate for extended periods – even in the smallest hand. The XL3000i requires minimal maintenance and it's precise.

Advantages:

- classic profile, ergonomic design, comfortable hand grip
- continuously adjustable
- 20% lighter than comparable models
- liquid and autoclavable
- Digitalanzeige
- tip-ejector adjustable to use different tip brands
- service kit for recalibration inclusive



One-channel pipettes with variable volume setting

Cat.#	Description	Accuracy	Volume
DP-2	P-2 1-Channel variable	+/- 12,0 to 1,5	0,1–2µl
DP-10	P-10 1-Channel variable volume	+/- 3,6 to 0,5	0,5–10µl
DP-20	P-20 1-Channel variable volume	+/- 4,0 to 0,5	2–20µl
DP-100	P-100 1-Channel variable volume	+/- 1,6 to 0,5	10–100µl
DP-200	P-200 1-Channel variable volume	+/- 1,2 to 0,5	20–200µl
DP-1000	P-1000 1-Channel variable volume	+/- 0,9 to 0,5	100–1000µl
DP-5000	P-5000 1-Channel variable volume	+/- 0,6 to 0,5	1000–5000µl
DP-10ml	P-10ml 1-Channel variable volume	+/- 2,5 to 0,5	1000–10.000µl



Denville-Multi-Channel Pipettes „XL3000i“ with variable volume setting

Denvilles XL3000i Multi-Channel Pipettes allow for comfortable pipetting for both right and left hand users. The plungers and ejector buttons are ergonomical located and operate smoothly. For comfortable pipetting in any direction, the tip manifold rotates 360°. The innovative ejector is curved, allowing the tips to be pushed off in steps, therefore reducing the amount of force required for ejection. The use of advanced, lightweight materials results in a pipette that will stand up for constant use, yet is easy to hold, even during extended pipetting sessions.

Advantages:

- up to 20% lighter than many similar models
- 360° rotating manifold
- individual precision pistons ensure accuracy and reproducibility
- digital volume display
- curved ejector bar reduces the force required
- recalibration tool included



Cat.#	Description	Accuracy	Volume
DP-8-10	8-Channel manual	+/- 8,0 to 2,0	1– 10µl
DP-8-50	8-Channel manual	+/- 3,0 to 1,0	5– 50µl
DP-8-200	8-Channel manual	+/- 1,4 to 0,8	20–200µl
DP-8-300	8-Channel manual	+/- 1,4 to 0,9	50–300µl
DP-12-50	12-Channel manual	+/- 3,0 to 1,2	5– 50µl
DP-12-200	12-Channel manual	+/- 1,4 to 0,9	20–200µl
DP-12-300	12-Channel manual	+/- 1,4 to 0,9	50–300µl



Biohit - Pipettes

The Biohit Proline Pipettes feature: • Precision, reproducible results and low weight; produced according to DIN 12650, conformity certified according to DIN 12600 manual pipettes self-calibratable, calibration free electronic pipettes.

- fast delivery and repair service and two years of warranty

Biohit Proline One-Channel-Pipettes with variable volume setting

Cat.#	Description	Volume
00720005	1-channel variable volume	0,1 – 2,5µl
00720000	1-channel variable volume	0,5 – 10µl
00720080	1-channel variable volume	2 – 20µl
00720020	1-channel variable volume	5 – 50µl
00720050	1-channel variable volume	10 – 100µl
00720070	1-channel variable volume	20 – 200µl
00720030	1-channel variable volume	50 – 200µl
00720060	1-channel variable volume	100 – 1000µl
00720040	1-channel variable volume	200 – 1000µl
00720110	1-channel variable volume	1000 – 5000µl



Biohit Proline One-Channel-Pipettes with fixed volume setting

Cat.#	Description	Volume
00722001	1-channel fixed volume	5µl
00722004	1-channel fixed volume	10µl
00722010	1-channel fixed volume	20µl
00722015	1-channel fixed volume	25µl
00722020	1-channel fixed volume	50µl
00722025	1-channel fixed volume	100µl
00722030	1-channel fixed volume	200µl
00722035	1-channel fixed volume	250µl
00722040	1-channel fixed volume	500µl
00722045	1-channel fixed volume	1000µl
00722050	1-channel fixed volume	2000µl
00722055	1-channel fixed volume	5000µl



Biohit Proline Multi Channel Pipettes with variable volume setting

Cat.#	Description	Volume
00720120	4-channel manual	5–50µl
00720130	4-channel manual	50–250µl
00720210	8-channel manual	0,5–10µl
00720220	8-channel manual	5–50µl
00720240	8-channel manual	50–300µl
00720310	12-channel manual	0,5–10µl
00720320	12-channel manual	5–50µl
00720340	12-channel manual	50–300µl
00720370	12-channel manual	50–300µl



Biohit ePET + elektronik One- and Multi-Channel-Pipettes with AC-Adapter

Cat.#	Description	Volume
710520ET	1-channel electronic	0,2–10µl
710010ET	1-channel electronic	5–100µl
710040ET	1-channel electronic	50–1200µl
710500ET	1-channel electronic	100–5000µl
710200ET	8-channel electronic (PCR)	0,2–10µl
710210ET	8-channel electronic	5–100µl
710220ET	8-channel electronic	25–250µl
710800ET	8-channel electronic	50–1200µl
710300ET	12-channel electronic	0,2–10µl
710310ET	12-channel electronic	5–100µl
710320ET	12-channel electronic	25–250µl
710810ET	12-channel electronic	50–1200µl



Tips - Pipettes - Compatibility

Cat. #	A300S A30UB	A300S Long	A250S	A400S A40UB	A205 A20UB	A505 A50UB	A1005 A100UB	A1505 A150UB	A2005 A200UB	A1000S A1000UB	CSP 250B	CSP 100B	GC.Tips	EC.Tips	T002
Volume	0.1-10µl	0.1-10µl	0.1-2.5µl	0.5-10µl	0.5-20µl	1-50µl	1-100µl	1-150µl	1-200µl	1000µl	200µl	1000µl	0.1-10µl	0.5-10µl	1-200µl
Eppendorf															
4810 Var. 0.510µl	✓			✓										✓	
4810 Var100-1000										✓		✓			
Res/Ref 0.1-2.5µl			✓	✓									✓	✓	
Res/Ref 0.5-10µl	✓			✓									✓	✓	
Res/Ref 2-20µl					✓	✓	✓				✓				✓
Res/Ref 10-100µl					✓	✓	✓				✓				✓
Res/Ref20/50-200						✓	✓	✓	✓		✓				✓
Res/Ref 100-1000										✓		✓			
Gibson															
P2 0.2-10µl	✓	✓	✓	✓									✓	✓	
P10 0.5-10µl	✓	✓	✓	✓									✓	✓	
P20 0.2-20µl					✓						✓				
P100 10-100µl					✓	✓	✓				✓				✓
P200 20-200µl						✓	✓	✓	✓		✓				✓
P1000 100-1000µl										✓		✓			
Finnpipette															
4500 0.2-2µl	✓	✓		✓									✓	✓	
4500 0.5-10µl					✓						✓				✓
4027 0.5-10µl	✓	✓		✓									✓	✓	
4027/4500 5-40µl					✓	✓	✓				✓				✓
4027/4500 40-200						✓	✓	✓	✓		✓				✓
4027/4500 -1000										✓		✓			
Multi-Chan. 10µl	✓	✓		✓									✓	✓	
Multi-Chan. 50µl					✓	✓					✓				✓
Biohit															
Pro.El. 10µl	✓	✓											✓		
Pro.El. 100µl							✓	✓	✓		✓				✓
Pro.El. 1000µl										✓		✓			
Pro.Var. 50µl					✓	✓					✓				✓
Pro.Var. 200µl							✓	✓			✓				✓
Cap															
Aera 0.5-10µl	✓			✓											
Aera 5-50µl					✓	✓									
Aera 25- 200µl							✓	✓	✓	✓	✓				✓

Quali - PCR Tubes: Single PCR Tubes, 0,2 and 0,5ml

Our PCR tubes and strip tubes are specifically designed for use in PCR machines and thermal cyclers. The tube walls are ultra thin and consistent to ensure a fast temperature exchange between heatingsystem and sample, resulting in faster cycles. The ultrathinPCR tubes are made from very pure polypropylen in very polished moulds and are free of lubricants, dyes, heavy metals or fillers. Like our other PCR products they are certified DNase-, RNase-und pyrogen free. The unique tube design and the longer cap form and seals compared to other tubes ensures a tight fit and avoids sample evaporation. The PCR tubes are available with a domed cap or flat cap in clear or mixed colored (blue - green - orange - red - violet - yellow) and in single colors.

Cat. #	Volume	Cap Form/ Color	Pack Unit
G001	0,2ml	domed / clear	1000 Tubes
G001-A	0,2ml	domed / color mix	1000 Tubes
G001-B	0,2ml	domed / blue	1000 Tubes
G001-G	0,2ml	domed / green	1000 Tubes
G001-O	0,2ml	domed / orange	1000 Tubes
G001-R	0,2ml	domed / red	1000 Tubes
G001-V	0,2ml	domed / violet	1000 Tubes
G001-Y	0,2ml	domed / yellow	1000 Tubes
G001-F	0,2ml	flat / clear	1000 Tubes
G001-AF	0,2ml	flat / color mix	1000 Tubes
G001-BF	0,2ml	flat / blue	1000 Tubes
G001-GF	0,2ml	flat / green	1000 Tubes
G001-OF	0,2ml	flat / orange	1000 Tubes
G001-RF	0,2ml	flat / red	1000 Tubes
G001-VF	0,2ml	flat / violet	1000 Tubes
G001 YF	0,2ml	flat / yellow	1000 Tubes
G050	0,5ml	flat / clear	1000 Tubes
G050-A	0,5ml	flat / color mix	1000 Tubes



Quali – PCR Plates, half and full skirted, 96 well

8-stripes PCR tubes have the same characteristics as the single 0,2ml tubes and are DNase-, RNase and pyrogen free. The tubes are supplied in stripes of 8 tubes.

Cat. #	Volume	Color	Pack Unit
G002	0,2ml	clear	125 stripes of 8
G002-A	0,2ml	colored mix	125 stripes of 8
G002-B	0,2ml	blue	125 stripes of 8
G002-G	0,2ml	green	125 stripes of 8
G002-R	0,2ml	red	125 stripes of 8
G002-O	0,2ml	orange	125 stripes of 8
G002-V	0,2ml	violet	125 stripes of 8
G002-Y	0,2ml	yellow	125 stripes of 8



G002

Quali – PCR-Tube-Caps

1 unit=125 stripes			
Cat. #	Form	Color	Pack Unit
G004	domed	clear	125 stripes of 8
G004-F	flat	Clear f. RT-PCR	125 stripes of 8
G004-A	domed	colored mix	125 stripes of 8
G004-B	domed	blue	125 stripes of 8
G004-G	domed	green	125 stripes of 8
G004-R	domed	red	125 stripes of 8
G004-O	domed	orange	125 stripes of 8
G004-V	domed	violet	125 stripes of 8
G004-Y	domed	yellow	125 stripes of 8



G004



G004-F

Quali – PCR Tubes with individually attached caps

The Tubes are supplied in strips of 8 tubes (0,2ml) and have the advantage, that an individual or several tubes can be closed, while others are still open. These tubes are also DNase-, RNase- and pyrogen free.

Cat. #	Pack size
G003	1 x 120 strips, clear
G003-A	1 x 120 strips, colored mix
G003-F	1 x 120 strips, clear, flat cap



0,2ml Thin Wall Tube EU (Extreme Uniformity) for RT-PCR

Uniformity:

Only a uniform wall thickness ensures accurate temperature transfer and therefore an even and precision cycling – reaction. The tubes can be used with a volume as low as 5µl. The maximum wall thickness difference is only +/- 0,05mm.

Material

High quality Polypropylen guarantees transparency and gas sealing; the tubes are Dnase-, Rnase-, and pyrogen free and free of human DNA. The tubes are showing high flexibility which avoids a crack or other damages during high load.

Cap

Our flat and thin wall cap ensures fast heating of the entrapped air and limits any condensation to a minimum. The dome like shape of the cap improves, in combination with sealing bands, the closure and condensation characteristics, while the flat frosted part of the cap may be written on for identification purposes. Finally, the cap is equipped with a so – called „Anti-Contamination-Tab“, that eliminates the effect of sample-to-sample carry-over generated by manual opening.

Test the quality, we offer now special trial prices!

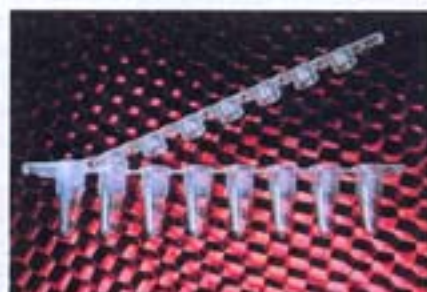
Cat. #	Description	Pack size
GK79401	EU-Tube 0,2ml, transparent	1000 Tubes



0,2ml Low Profile Thin Wall Tube Strip EU (Extreme Uniform) for „Extraordinary PCR & Real Time PCR“

Our flat and thin wall cap ensures fast heating of the entrapped air and limits any condensation to a minimum. Furthermore, it is extremely clear, allowing external monitoring of the tube's content without opening it. The extra wide optical areas ensure the highest maximum light transfer which improves the minimum detection limit. When using PE Cyclers & Biorad Cycler we recommend the use of our „Low Profile Strip Adapters“.

Cat. #	Description	Pack size
GK79601	EU 8-tube strip, transparent	1 x 120 Strips
GK79609	EU 8-tube strip, white, for RT-PCR	1 x 120 Strips
GK79610	EU 8-tube strip, black, for RT-PCR	10 x 120 Strips
GK79701	EU 8-cap strip, transparent	1 x 120 Strips
GK77777	96-Well-Adapter	1



96-Well-PCR-Plates, flat surface, flexibel, „low-and high profile“

This plate fits any regular or RT-Cycler. Due to the flat surface of the low profile plates, the plate can be closed with any sealing films of your choice.

Low-Profile-Plates are recommended in case of small sample volumes, as the dead-room will be reduced between sample and heated lid.

Cat. #	Description	Pack size
GK96LOW	PCR-Plate, „low-profile“, transparent	50 Plates
GK96HIGH	PCR-Plate, „high-profile“, transparent	50 Plates

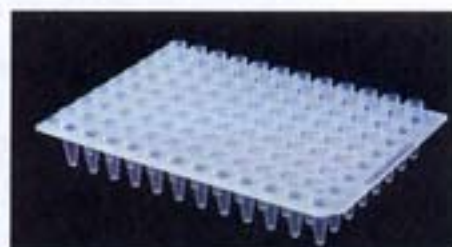


Quali – PCR Plates without frame

Our PCR-Plates in microtitre plate format comprises 96 x 0,2ml extra thinwall PCR Tubes, which guarantee a fast temperature exchange between heating system and sample.

The PCR Plates are certified DNase- und RNase free and are an alternative for laboratories with a high quantity of samples. The high profile plates can be sealed with sealing films as well as with our domed(G004) or flat cap strips(G004-F).The PCR-Plates have an alpha-numerical coding system for easy identification and they fit all comon thermal cyclers. The 96-plates can be cut into smaller sections if required.

Cat.#	Format	Color	Pack size
G030	24 well	clear	10 / 50 / 100
G037	32 well	clear	10 / 50 / 100
G031	48 well	clear	10 / 50 / 100
G032	96 well	clear	10 / 50 / 100
G033	96 well steril	clear	10 / 50 / 100
G032-A	96 well	colored mix	10 / 50 / 100
G032-B	96 well	blue	50 / 100
G032-G	96 well	green	50 / 100
G032-R	96 well	red	50 / 100
G032-O	96 well	orange	50 / 100
G032-V	96 well	violet	50 / 100
G032-Y	96 well	yellow	50 / 100



G032



G031

G037

G030

Quali – PCR Plates, half and full skirted, 96 well

- highly pure Polypropylen
- guaranteed DNase-, RNase and pyrogenfrei
- G060/H/1E, optimized for **ABI 3100**, flat surface, no disturbing edge when trying to attach sticky films.
- G060/H1E-OA, with higher edge optimized for **ABI 3100, 3730, 7000, 7900, 9700**
- G060/H-W and G060H-1E-W white plates, especially useful for „Lighttyper“ Hoffmann-LaRoche
- For sealing options like septa mat and RT-PCR films see sealing options for PCR-Plates
- **All plates (except G060/H1E-OA) are available in different colors, please add the color code to the cat. nr. when ordering:**
B = blue, G = green, R = red, O = orange, V = violet, W=white, Y = yellow.

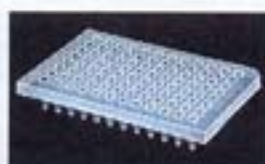
Cat.#	Format	Color	Pack size
G060	96 well full skirt	transparent	10 / 50 / 100
G060/H	96 well half skirt	transparent	10 / 50 / 100
G060/H/1E	96 well half skirt	transparent	10 / 50 / 100
G060/H/1E-OA	96 well half skirt	transparent	10 / 50 / 100
G060/H/1E-SG	96 well half skirt	transparent	10 / 50 / 100
XXX-B-G-R-O-V-W-Y	96 well	colored	50 and 100



G060



G060/H



G060/H/1E



G060/H-1E-OA



G060/H-1E-SG

Septa Mat and sealing options for PCR, RT-PCR and ABI-Systems

Septamats: G060/S-3100 made from ultra pure silicon, very flexibel; certified DNase-, RNase- and pyrogenfrei, autoclavable and reusable.

Septa 0,5: G310S, made for ABI Prism 310 for single 0,5ml Tubes

Ultra-Clear-Film: the clearness guarantees the optical analysis during the RT-PCR. The unique pressure sensitive glue does not leave any remainders on the PCR-plate, which could interfere with the samples.

RT-PCR-Cap-Strips: usable with our PCR-plates and 8-Tube-Strips (G002). The flat and high clear cap-surface is useful especially for RT-PCR.

Polyester-Adhesive-Film: a sealing film for use at short time high temperatures, as PCR, or to seal ELISA-Plates

Thermal-Sealing-Film: a high quality for thermal seal of PCR-Plates

Aluminum-Film: this paper backed Alu-film is the best seal for wide temperature range, resistent against contact with aggressiv reagents, useful for the protection of light-sensitive samples.

All sealingfilms and cap-strips are DNase- RNase- and pyrogenfrei.

Dimensions: 78 x 120mm +10mm gripp.



G060/S-3100



G040



G071



G310s +
G310-T

Cat. #	Description	Application	Pack size
G060/S-3100	Septa Mat f. ABI 3100	ABI 3100	10 mats
G310-S	Septa f. ABI 310	ABI PRISM 310	500 Septa
G310-T	0,5ml Tubes	ABI PRISM 310	500 Tubes
G310-K47	Capillary 47cm	ABI PRISM 310	5 Capillaries
G310-K61	Capillary 61cm	ABI PRISM 310	2 Capillaries
G060/UC-RT	Ultra-Clear-Film f. RT-PCR	RT-PCR	100 films
G004	Cap strips, domed f. PCR	PCR	125 strips
G004-F	Cap strips, flat f. RT-PCR	RT-PCR	125 strips
G040	Adhesive Film, Polyester	-40°C bis	100 films
G041	Adhesive Film sterile	-40°C bis	100 films
G042	Thermal Seal.Film	-40°C bis	100 films
G071	Adh. Aluminum Film	-40 bis 135°C	100 films
G079	Pressure bolt		1 piece

Quali – 384 PCR Plates, optimized for ABI- and MJ-Research Systems

- alphanumeric identification system
- ultra pure polypropylen
- certified DNase-, RNase and pyrogen free
- Form-optimized for ABI 3100, 3730,7000, 7900,9700, MJ Research SytemsPTC200 and PTC225

Cat.#	Format	Color	Pack size
G034-ABI	384 well	transparent	10 / 50 / 100
G034-ABI-A	384 well	colored mix	50 and 100
G034-ABI-B	384 well	blue	50 and 100
G034-ABI-S	384 well	black	50 and 100
G034-ABI-G	384 well	green	50 and 100
G034-ABI-O	384 well	orange	50 and 100
G034-ABI-R	384 well	red	50 and 100
G034-ABI-V	384 well	violet	50 and 100
G034-ABI-W	384 well	white	50 and 100
G034-ABI-Y	384 well	yellow	50 and 100



384 PCR Plates

The 384 PCR plate is manufactured for „High Throughput Screening“ laboratories. The maximum well capacity is 40µl with a working volume of 25µl to accomodate additional DNA replication. The 384 PCR plate is completely compatible with 384 thermal cyclers, like Perkin Elmer 9700, Techne, Hybaid. The surface of the plate is embossed with an alpha-numerical grid for easy well location. The conical flat bottom ensures even aspiration and the clarity of this ultra pure polypropylen is unsurpassed. They also can be easily labeled for bar coding in robotersystems. The plates are certified DNase-, RNase- and pyrogen free.

Cat. #	Color	Pack size
G034	transparent	50 or 100
G035	white	50 or 100
G036	black	50 or 100



Silicon mats for PCR- and Deep Well Plates

Our silicon mats are made from ultra pure silicon and therefore they are very flexible. The mats show an alphanumeric grid system corresponding to the microplates for easy identification. The piercable selfsealing feature ensures, that evaporation and aerosols are hindered from escaping. The mats can be cleaned, autoclaved reused and frozen and are certified DNase-, RNase and pyrogen free.

G068 Compression Mat: guarantees vapor lock, avoids evaporation during PCR, also usable in conjunction with sealing films.

G078 Expansion-Mat: for Perkin Elmer, seals all tubes in „MicroAmp“ Tray.

Cat. #	Use with	Units
G072	PCR-Platte, 96 well	10
G073	PCR-Platte, 384 well	10
G074	PCR-Platte,384 deep well	10
G078	96 well Expans. Mat for PE	10
G068	Compression Mat for PCR-Plate	10



G078



G072



G073



G068

PCR Plates Compatibility

Thermo Cycler/ Sequencer	G032 96 Well	G060 96 Well with full skirt	G060H 96 Well with half skirt	G060/H/1E G060/H/1E-OA	G060/H/1E-SG 96 Well segm.	G034 384 Well	G034-ABI 384 Well
ABI 3100 / 3700 / 3730				✓			
ABI Prism 7700				✓			✓
ABI Prism 7000	✓		✓	✓	✓		
ABI Prism 7900				✓			
ABI Geneamp 5700	✓		✓	✓			
ABI Geneamp 9600 / 9700	✓		✓	✓	✓		✓
Biometra Uno	✓	✓	✓	✓	✓	✓	
Uno II	✓		✓	✓			✓
TI	✓	✓	✓	✓		✓	✓
TGadient/Trobot	✓		✓	✓			
Bio-Rad GeneCycler			✓				
Icycler	✓		✓	✓			
Eppendorf Mastercycler	✓	✓	✓	✓			
Hybaid Sprint	✓		✓				
Express	✓	✓	✓	✓		✓	✓
Touchdown	✓	✓	✓	✓		✓	✓
Omigene	✓	✓	✓	✓	✓		
Omn-E	✓	✓	✓	✓			
MJ Research PTC200	✓	✓	✓	✓	✓		✓
PTC225	✓		✓	✓			✓
PTC100	✓	✓	✓	✓	✓		
MWG Primus 96	✓	✓	✓	✓			
Primus 384	✓		✓	✓			✓
PE 9600	✓		✓	✓	✓		
9700	✓		✓	✓	✓	✓	✓
Roche Lighttyper			✓	✓			✓
Stratagene Robocycler	✓	✓				✓	✓
Techne TC-412	✓	✓	✓	✓	✓		
TC-512	✓	✓	✓	✓	✓		

Quali - Deep Well Plates

These plates are produced from high pure polypropylene, which is autoclavable. The 96 wells are compatible with multi-channel pipettors and can be used with roboters. As the plates have cylindrical walls with round bottom wells, the samples can be repipetted completely, which is not possible with square form wells.

The deep well plates are stackable and certified DNase, RNase- pyrogen and metal free, which is ideal for DNA/RNA assays and other enzyme tests. The plates are chemical resistant and freezable up to -80°C.

To close plates, we offer different alternatives as our self adhesive PP and Alu films and autoclavable and piercable high pure silicon mats. The silicon mats are also freezable and feature an alphanumeric grid system.

Cat. #	Description	Pack size
G069	Deep Well Plate, 0,5ml - 96 Well	50
G062	Deep Well Plate, 1,1ml - 96 Well	50
G063	Deep Well Plate, 2,0ml - 96 Well	50
G064	Deep Well Plate, 2,0ml, square wells 96	25
G064	Deep well Plate, 4,6ml, 48 well	25



G069



G062 - G063



G064

Silicon mats and Sealing Films for Deep-Well- and Tissueculture plates

Silicon Mat: ultra pure silicon, very flexibel, alphanumeric coding system, piercable, selfsealing, autoclavable- and reusable.

Breathable Sealing Film: porous adhesive film, especially designed for use in cell and tissue culture applications. The film seals all types of microplates and effectively allows gas exchange for cellula or bacterial cultivation, while at the same time preventing cross-contamination. eine poröse Adhesivfolie für Zell- und Bakterienkulturen. Die Folie ist

Cat.# G067 non sterile and G067-S sterile, Dimensions 80x120mm LxW

PP-Film Cat.# G070: selfsealing film made of PP, suitable for sealing tissue culture plates, for short term storage and incubation, temperature resistant from -40 bis +80°C, Dimensions 78 x 120mm +10mm Gripp

Alu-Film Cat.# G071: selfsealing, paper backed Aluminum film, temperature resistant from -40 to +135°C dimensions 78 x 120mm +10mm Gripp.

All Silicon mats and sealing films are DNase- RNase- and pyrogenfree.



G071

Cat. #	Description	Units
G070	PP-Film	100
G071	Alu-Film	100
G067	Breathable Film	100
G067-S	Breathable Film, sterile	2 x 25
G075	for round Deep Wells 1 or 2ml/G062/G063	10
G076	for quadratic Deep Wells 1 or 2ml/G064	10
G077	for round Deep Wells 500µl	10



G067

384- 384-Well „Diamond“ Microplates and DMSO resistant Imperma Mat

- A new square well Plate for „HTS and Drug Discovery Labs“, available in 120µl and 240µl

384-Well-Plate:

- excellent chemical resistance, usable from -80 to +120°C
- SBS Foot Print for robotic applications
- 240µl version for maximized sample storage capacity
- ultraflat surface permits excellent seal with adhesive or heat seal films
- alphanumeric grid for easy well identification
- supporting ribs enhance plate strength for centrifugation up to 4.000g

Imperma-Mat:

- autoclavable, reusable, absolutely chemical resistant
- contains no adhesives, no extractable substances, prevents sample contamination
- Plates and Mats are certified DNase-, RNase free

Cat.#	Description	Max. Volume with Siliconmat	Units
G384-12	384 Mikroplatte 120µl	90µl	50
G384-24	384 Mikroplatte 240µl	210µl	50
G384-SQ	384 Imperma-Mat (Silicon)	for square wells	10



Quali – Mikrotest Plates

Made from top-quality, crystal clear polystyrene, very little own fluorescence and highest optical quality. Frosted finish of plates prevents errors from external light, compatible with automated plate readers. Alphanumeric coding on the frame and each well can be used for easy sample identification.

Lid orientation corner and condensation rings on the lid reduce risk of contamination and condensation. Sharpe V-angle for faster setting of cells.

Cat. #	Description	Pack size
G080-UB	MTP-Plate, U-Form	100
G080-V	MTP-Plate, V-Form	100
G080-F	MTP-Plate, Flat bottom	100
G080-D	MTP-lid	100
G080-MP6	6-Well-Makroplate	100



Quali – Microtest-Plates, 96 Well Polypropylene

These 96-Well-Plates are made from highest quality medical grade polypropylene. They have an ultra-flat surface and are compatible with HTS and robotic liquid handling equipment (SBS-standard). Applications: sample storage and transport – screening – reagent transfer – HTP and Microtiter assay. The plates feature:

- available in round bottom (500µl) and V-bottom (450µl)
- alphanumeric labeling on each well for efficient well identification
- usable in temperature range from -80 to 121°C,
- certified DNase-, RNase and endotoxin free

Cat. #	Description	color	Pack size
G096-UB	Microtest-Plate, U-Form, 96 Well	transparent	50 St.
G096-UBB	Microtest-Plate, U-Form, 96 Well	blue	50 St.
G096-UBG	Microtest-Plate, U-Form, 96 Well	green	50 St.
G096-UBR	Microtest-Plate, U-Form, 96 Well	red	50 St.
G096-UBY	Microtest-Plate, U-Form, 96 Well	yellow	50 St.
G096-UBW	Microtest-Plate, U-Form, 96 Well	white	50 St.
G096-UBS	Microtest-Plate, U-Form, 96 Well	black	50 St.
G096-VB	Microtest-Plate, V-Form, 96 Well	transparent	50 St.
G096-VBB	Microtest-Plate, V-Form, 96 Well	blue	50 St.
G096-VBG	Microtest-Plate, V-Form, 96 Well	green	50 St.
G096-VBR	Microtest-Plate, V-Form, 96 Well	red	50 St.
G096-VBY	Microtest-Plate, V-Form, 96 Well	yellow	50 St.
G096-VBW	Microtest-Plate, V-Form, 96 Well	white	50 St.
G096-VBS	Microtest-Plate, V-Form, 96 Well	black	50 St.



Quali – Glas-Bottom-Plates in 96 – 384 and 1536 Well

A high quality glas-bottom-plate according to current SBS-Standards, which reduces the appearance of autofluorescence in your assay readout to less than 5% of the level of unprocessed plastic microtiterplates. Further advantages:

- more accurate measurement due to unmatched flatness
- low-base design ensures readability of all wells, especially outer wells
- well design increases the optical accessible area and well volume

Main applications:

fluorescence correlation spectroscopy (FCS)

Confocal imaging, Fluorescence polarisation

Cell-based assays, Microarrays

Laser-induced fluorescence

Cat. #	coating / Sterility	Wells	Volume	Pack size
GB-96	plain / no	96	500µl	5/20/40
GB-96PLL	Poly-L-Lysine / yes	96	500µl	5/20/40
GB-96Co	Collagen / yes	96	500µl	5/20/40
GB-384	plain / no	384	120µl	5/20/40
GB-384PLL	Poly-L-Lysine / yes	384	120µl	5/20/40
GB-384Co	Collagen / yes	384	120µl	5/20/40
GB-1536	plain / no	1536	8µl	5/20/40
GB-1536PLL	Poly-L-Lysine / yes	1536	8µl	5/20/40
GB-1536Co	Collagen / yes	1536	8µl	5/20/40



Quali – Centrifuge Tubes and Labels

„Label – Tape“ Marker Tape

A self adhesive writing tape for sample identification or marking of accessories in the Lab.
Advantages: withstanding manifold autoclaving (+121°C) deep temperature resistant up to -23°C, to use with most pens

Cat.#	Color	Roll dimensions (WxL)
LT-54W	white	19,1mm x 54m
LT-54GR	green	19,1mm x 54m
LT-54GE	yellow	19,1mm x 54m
LT-54BL	blue	19,1mm x 54m
LT-54RO	red	19,1mm x 54m
LT-54OR	orange	19,1mm x 54m
LT-54Mix	all colors	6 Roles
LT-54RH	Acryl	Roll dispenser



Parafilm „M“

Parafilm is a soft, waterproof, halftransparent film for laboratory use to close tubes and vessels.
Parafilm does not smell, it is resistant to alcohol, acids and bases in weak concentrations.

Parafilm is delivered in a practical dispenserbox.

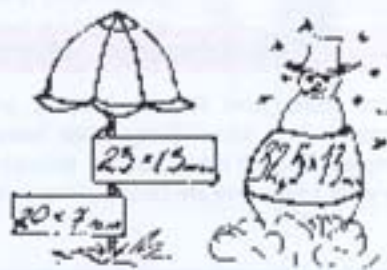
Cat. #	Description	Dimensions
HP-5075	Parafilm	4" x 125ft WxL
HP-2250	Parafilm	2" x 250ft WxL



Quali – Stickers, „hot – cold“

- usable in refrigerators, cryocontainers and in boiling water
- made of chemical Polyvinyl, adhere to all plastics, absolutely tight-fitting, i.e. no hindrance in usage with devices, easy to handle through peeling off from the backing paper and pressing onto the tube.

Cat. #	Size	for Tubes	Pack size
HK-20	32,5 x 13 mm	1,5/2,0ml	1000 labels
HK-95-L	9,5 mm Ø	for laserprint	3840 labels
HK-13-L	13 mm Ø	for laserprint	3840 labels
HK-L	32,5 x 13 mm	for laserprint	2040 labels



Tough-Tags Labels for Microcentrifuge tubes

Tough-Tags labels are made of polyester, designed for all types of microcentrifuge tubes or other plastic vessels. The labels are available in different colors and usable up to -20°C.

Packaging unit: 1000 Labels/Roll

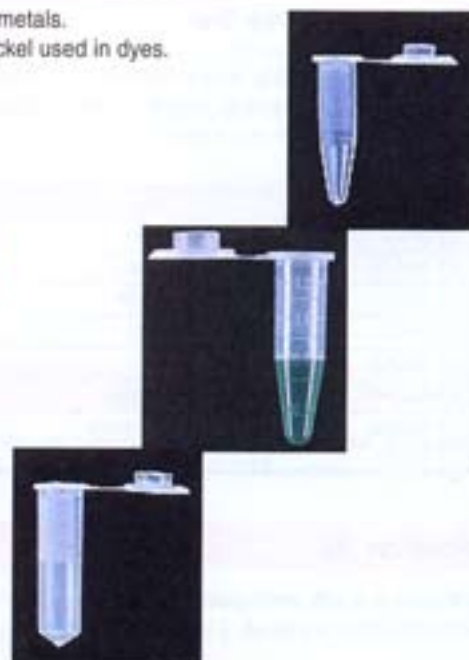
Cat. #	Color	Size	for Tubes
HKTT-05-T	transparent	24 x 12,5mm	0,5ml
HKTT-05-W	white	24 x 12,5mm	0,5ml
HKTT-05-R	red	24 x 12,5mm	0,5ml
HKTT-05-Y	yellow	24 x 12,5mm	0,5ml
HKTT-05-B	blue	24 x 12,5mm	0,5ml
HKTT-05-G	green	24 x 12,5mm	0,5ml
HKTT-1.5-T	transparent	32 x 12,5mm	1,5/2,0ml
HKTT-1.5-W	white	32 x 12,5mm	1,5/2,0ml
HKTT-1.5-R	red	32 x 12,5mm	1,5/2,0ml
HKTT-1.5-Y	yellow	32 x 12,5mm	1,5/2,0ml
HKTT-1.5-B	blue	32 x 12,5mm	1,5/2,0ml
HKTT-1.5-G	green	32 x 12,5mm	1,5/2,0ml



Quali – Microcentrifuge Tubes

- our microcentrifuge tubes are made from 99,9% pure polypropylen without fillers or heavy metals.
- our colored tubes do not contain any metallic ions, not even the usual iron, chromium or nickel used in dyes.
- the microcentrifuge tubes do resist 20.000xG force, frosted lid with 28mm piercable zone
- easy and absolutely tight closing seal
- 1,5 and 2,0ml BoilProof Tubes minimize the risk of opening during heating phases
- certified DNase-, RNase-, pyrogen- and metall free, also available in sterile, see below

Cat. #	Volume / Color	Pack size
G051-1	0,6ml / clear	1 x1000
G051	0,6ml / clear	10 x1000
G052-1	1,7ml / super-clear	1 x 500
G052	1,7ml / super-clear	10 x 500
G052-A	1,7ml / mixed colors	1 x 500
G052-B	1,7ml / blue	10 x 500
G052-G	1,7ml / green	10 x 500
G052-R	1,7ml / red	10 x 500
G052-O	1,7ml / orange	10 x 500
G052-V	1,7ml / violet	10 x 500
G052-Y	1,7ml / yellow	10 x 500
G052BP	1,5ml / clear / BoilProof	1 x 500
G053BP	2,0ml / clear / BoilProof	1 x 500



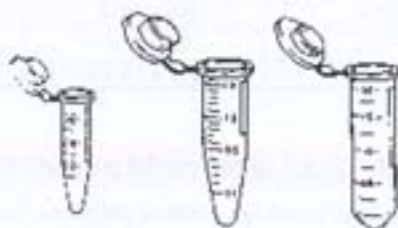
Quali – Microcentrifuge tubes, super clear, steril

Cat. #	Volume / Color	Pack size
G051-S	0,6ml / clear/sterile	5 x 100
G052-S	1,7ml / clear/sterile	5 x 50
G053-S	2,0ml / clear/sterile	5 x 50

Quali – „Low Retention“ – Microcentrifuge Tubes (formerly Siliconized Tube)

Those clear „Low Retention“ tubes are replacing the formerly produced siliconized microcentrifuge tubes. These tubes feature extremely low adhesion for optimal recovery of samples. Through a new polymer technology there are no silicones or lubricants added. Like the other tubes, they are Dnase-, Rnase- and metall free.

Cat. #	Volume	Pack size
G016	0,6ml	1000 (2 x 500)
G017	1,7ml	500 (2 x 250)
G018	2,0ml	250



Quali – Amber Screw Cap tubes

- made from biological inert material
- tubes usable for low temperature storage up to -196°C (gas-phase)
- centrifugation possible up to 20.00 x g
- 0,5ml tube free standing with space for labeling

Cat. #	Volume	Pack unit
G022-AM	0,5ml Tubes without cap	500
G023-AM	1,5ml Tubes without cap	500
G024-AM	2,0ml Tubes without cap	500
CP-AM	Screw caps	500



VALUE LINE – Microcentrifuge Tubes

Made from PP, mostly chemical- and temperature resistant, flat, piercable, easy to handle and tightly shutting lid.

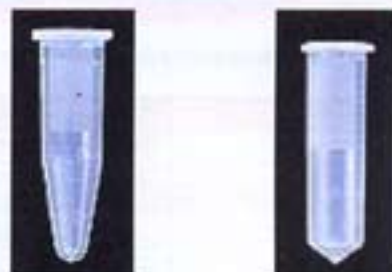
Cat. #	Volume / Color	Pack Unit
G056	0,5ml / clear	1 x 1000
G056-10	0,5ml / clear	10 x 1000
G054	1,5ml / clear	1 x 1000
G054-8	1,5ml / clear	8 x 1000
G054-B	1,5ml / blue	8 x 1000
G054-G	1,5ml / green	8 x 1000
G054-R	1,5ml / red	8 x 1000
G054-Y	1,5ml / yellow	8 x 1000
G055	2,0ml / clear	1 x 1000
G055-8	2,0ml / clear	8 x 1000



Quali – Capless Tubes

The capless tubes have the same features as our Quali-microcentrifuge tubes. They are certified DNase-, RNase-, pyrogen- and metal free.

Cat. #	Volume / Color	Pack size
G044	1,5ml / clear	500 Tubes
G045	2,0ml / clear	500 Tubes



Quali – Screw Cap Tubes

Quali – Screw Cap Tubes serve a broad range of laboratory needs, including collection, processing, centrifugation, long term storage and OEM packaging, shipping of restriction enzymes or other DNA/RNA modifying enzymes. The threaded „O“-ring is resistant to chemicals like pure Ether, Hexan, Aceton, Chloroform, Acetonitril etc. and guarantees absolute tightness.

Quali – Microcentrifuge tubes are certified DNase- and RNase free and are delivered sterile with a lid in pack units of 10 x 50/bags = 500 tubes. The tubes can be delivered in ten different colors if requested, minimum purchase / color 4.000 tubes.

Cat. #	Form	Volume / Color	Pack size
G019	conical	0,5ml / clear	5 x 100
G020	conical	1,5ml / clear	5 x 100
G021	conical	2,0ml / clear	5 x 100
G022	freestanding	0,5ml / clear	5 x 100
G023	freestanding	1,5ml / clear	5 x 100
G024	freestanding	2,0ml / clear	5 x 100
G019A	conical	0,5ml / colored mix	8 x (5 x 100)
G020A	conical	1,5ml / colored mix	8 x (5 x 100)
G021A	conical	2,0ml / colored mix	8 x (5 x 100)
G022A	freestanding	0,5ml / colored mix	8 x (5 x 100)
G023A	freestanding	1,5ml / colored mix	8 x (5 x 100)
G024A	freestanding	2,0ml / colored mix	8 x (5 x 100)



Quali – „True-Lock“ 1,5ml Tubes

„True-Lock“ provides a simple and safe security for your samples. The locking system prevents the cap coming open. The tube is centrifugable, graduated and deep freezable up to 80°C.

Cat.#	Description	Pack Unit
G013	True-Lock, 1,5ml	1000



Quali – Centrifuge tubes 15 and 50ml – sterile

- transparent Polypropylen with blue screw cap
- conical bottom
- graduated

Cat. #	Volume / Dimensions	Pack unit
G027	50ml / 30 x 115mm	5 x 20 / sterile
G027/500	50ml / 30 x 115mm	25 x 20 / sterile
G028	15ml / 17 x 120mm	1 x 100 / sterile
G028/500	15ml / 17 x 120mm	5 x 100 / sterile
G028/1000	15ml / 17 x 120mm	10 x 100 / sterile



Quali – Centrifuge Tubes / Sample Tubes

Made from transparent polypropylen with screw cap, the 30ml tubes are graduated.

Cat. #	Volume / Dimensions	Pack unit
G100	13ml / 16 x 100mm	1000
G100-S	13ml / 16 x 100mm	10x100 / sterile
G106	15ml / 20 x 76mm	1000
G106-S	15ml / 20 x 76mm	10x100 / sterile
G107	30ml / 25 x 107mm	500
G107-S	30ml / 25 x 107mm	5 x 100 / sterile



G100



G106



G107

Centrifuge Tubes made from Polystyrene, highly transparent

Cat. #	Volume / Dimensions	Units / Form
G101	12ml / 16 x 100mm	1000 / cylindrical
G102	13ml / 16 x 105mm	1000 / conical
G103	3,5ml / 12 x 55mm	5000 / cylindrical
G104	20ml Diluter Tube / 22 x 62mm	1000 / Flachboden
G105-1	4,5ml / 12 x 75mm	1000 / cylindrical
G105	4,5ml / 12 x 75mm	4000 / cylindrical



Gripp stoppers, Polyethylene, natural

Picture in blue

Cat. #	Dimensions	Units
G109	16mm	1000
G110	12mm	1000



Sample tube for „Coulter-Counter“

Dust- and partikel free, 25 ml tubes made from optical clear polystyrene, tight lid, paralel viewing areas, writing area,

G108-ALDM: for AI, Linson, Dilab, Mölab

Cat. #	Volume	Pack size
G108	25ml	250 / 1000
G108-ALDM	20ml	54,90



G108



G108-ALDM

Shipping Containers for Pathology

Clear polypropylene with screw cap, rounded bottom for complete sample deloading, freestanding resistant to formaldehyde.

- clear polypropylene with screw cap
- rounded bottom for complete sample deloading
- resistant to formaldehyde

Cat. #	Volume / Dimensions(WxH)	Pack size
G111	20ml / 27 x 48mm	1000
G112	35ml / 34 x 55mm	500
G113	50ml / 34 x 75mm	500
G114	100ml / 43 x 88mm	250



G111

G113

Centrifuge-Tubes for High Speed Rotors

Useful for preparative centrifugation, protein purification, extraction, density gradient centrifugation, centrifugation of biohazard materials.

All tubes also available with Lids on request.

250ml FB = Flat bottom, 250ml RB = Round Bottom

Cat #	Vol./ Material/ rpm	Dimensions mm	Units
HR-PA-10	10ml/ PA/ 24.000	16x80	10
HR-PC-10	10ml/ PC/ 24.000	16x80	10
HR-PE-10	10ml/ PE/ 18.000	16x80	10
HR-PF-10	10ml/ PF/ 20.000	16x80	5
HR-PP-10	10ml/ PP/ 24.000	16x80	10
HR-B-30	30ml/ B/ 5.000	24x105	10
HR-PC-30	30ml/ PC/ 24.000	25x92	10
HR-PP-30	30ml/ PP/ 24.000	25x92	10
HR-PA-30	30ml/ PA/ 24.000	25x92	10
HR-PE-30	30ml/ PE/ 10.000	25x92	10
HR-PF-30	30ml/ PF/ 24.000	25x92	5
HR-PA-50	50ml/ PA/ 20.000	29x103	10
HR-PA-500	500ml/ PA/ 9.000	70x165	6
HR-PC-500	500ml/ PC/ 9.000	70x165	6
HR-PE-500	500ml/ PE/ 9.000	70x165	6
HR-PP-500	500ml/ PP/ 9.000	70x165	6

Cat #	Vol./ Material/ rpm	Dimensions mm	Units
HR-PC-50	50ml/PC/ 24.000	29x103	10
HR-PE-50	50ml/PE/ 20.000	29x103	10
HR-PF-50	50ml/PF/ 20.000	29x103	5
HR-PP-50	50ml/PP/ 20.000	29x103	10
HR-PA-80	80ml/PA/ 20.000	38x105	10
HR-PC-80	80ml/PC/ 20.000	38x105	10
HR-PE-80	80ml/PE/ 12.000	38x105	10
HR-PF-80	80ml/PF/ 15.000	38x105	5
HR-PP-80	80ml/PP/ 20.000	38x105	10
HR-PA-250FB	250ml/PA/ 14.400	62x120FB	6
HR-PC-250FB	250ml/PC/ 14.400	62x120FB	6
HR-PE-250FB	250ml/PE/ 13.500	62x120FB	6
HR-PP-250FB	250ml/PP/ 14.400	62x120FB	6
HR-PA-250RB	250ml/PA/ 14.400	62x120RB	6
HR-PC-250RB	250ml/PC/ 14.400	62x120RB	6
HR-PE-250RB	250ml/PE/ 12.000	62x120RB	6
HR-PP-250RB	250ml/PP/ 14.400	62x120RB	6

Material:

B – Borex Glass®	PA – Polyallomer	PF – Polyflor®
PE – Polyethylene	PC – Polycarbonate	PP – Polypropylene



Fit:

10 ml	Beckmann JA-21, Sigma 12157+12111,
30 ml	Sigma 12158, in 50ml Rotoren: JA-20, JA-13, JS-13,JS-7.5, SS-34, SA-600, HB-4, HS-4, A8.24, A12.17, AS4.13, AS4.17 mittels Adapter
50 ml	Sigma 12156/12150, Kontron A8.24/A12.17/AS 4.13/AS 4.7, Beckman JA-20/JS-13/JA-17/JS-7.5, Sorvall SS-34/SA-600/HB-4/HS-4
80 ml	Kontron A 8.20+AS 4.13-2+AV 8.19, Sorvall GSA+ HS4, Beckmann JA-18+JS-13, Sigma 12159+12155,
250 ml	Kontron A6.14+AS 4.7+AS4.4, Sigma 12254, Beckman JA-14+JS-7.5
500 ml	Kontron A 6.9; Beckman JA-10; Sorvall GS-3

Tubes for Ultracentrifuges

Cat. #	Previous Kontron #	Material	Nominal Vol./ ml	Filling-Vol./ ml	Dimensions mm	fits with the following rotors	
UZ-PC-2	91-90289	PC, thickwall	2	0,6	08x51	TFT 80.2	
UZ-PA-2	91-90288	PA, thinwall	2	1,3	08x51	TST 60.2	
UZ-PA-4,4	91-90212	PA, thinwall	4,4	3,3	11x60	TFT 80.4, TST 60.4	
UZ-PC-4,4	91-90214	PC, thickwall	4,4	2,2	11x60	SW60Ti,	
UZ-PC-4,4-G	91-90275	PC, thickwall with Thread	4,4	2,7	11x60	SW56Ti	
UZ-PA-5-1	91-90219	PA, thinwall	5	5	13x51	TST55.5, AH-650, SW65, SW 55Ti	
UZ-PC-5-2	91-90224	PC, thickwall	5	3,4	13x51	SW50.1, SW50, SW 39, TLA100-3	
UZ-PA-6,5-2	91-90228	PA, thickwall	6,5	2,8	13x64		
UZ-PA-6,5-1	91-90227	PA, thinwall	6,5	5,8	13x64	TFT45.6, 50.4Ti	
UZ-PC-6,5	91-90229	PC, thickwall	6,5	2,8	13x64	50.3Ti, 40.3	
UZ-PC-6,5-2-G	91-90241	PC, thickwall with Thread	6,5	4,5	13x64		
UZ-PA-13,2	91-90221	PA, thinwall	13,2	11,3	14x89	TST41.13, SW41Ti	
UZ-PA-14	91-90215	PA, thinwall	14	12	14x95	TST41.14,	
UZ-PC-14	91-90382	PC, thickwall	14	9	14x95	SW40Ti	
UZ-PA-17	91-90217	PA, thinwall	17	15,8	16x102	TST28.17, AH-629,	
UZ-PC-17	91-90195	PC, thickwall	17	12,5	16x102	SW27.1, SW28.1	
UZ-PA-13,5	91-90202	PA, thinwall	13,5	11	16x76	TFT80.13, TFT75.13, TFT65.13,	
UZ-PC-13,5-2-G	91-90235	PC, thickwall with Thread	13,5	8,5	16x76	TFT60.13, TFT50.13, TFT32.13,	
UZ-PC-13,5-2	91-90205	PC, thickwall	13,5	9,5	16x76	82Ti, 75Ti, 70.1Ti, 65, 50Ti, 40, SW36	
UZ-PA-38,5-1	91-90196	PA, thinwall	38,5	34	25x89	TFT70.38, TFT65.38, TFT55.38,	
UZ-PC-38,5-2-G	91-90236	PC, thickwall with Thread.	38,5	29	25x89	TFT50.38, TST28.28, AH-629, 70Ti,	
UZ-PC-38,5-2	91-90200	PC, thickwall	38,5	32,5	25x89	60Ti, 55.2Ti, 50.2Ti, 42.1, SW27, SW28	
UZ-PA-38,5-2	91-90198	PA, thickwall	38,5	32,5	25x89		
UZ-PC-94-2	91-90209	PC, thickwall	94	77	38x102	TFT45.94,	
UZ-PC-94-2-G	91-90237	PC, thickwall, with Thread	94	88	38x102	45Ti, 35	
UZ-4.4-LID	96-00165	Lid	With O-Ring		for	4,4ml	Thread tubes
UZ-6.5-LID	96-00151	Lid	With O-Ring		for	6,5ml	Thread tubes
UZ-13.5-LID	96-00129	Lid	With O-Ring		for	13,5ml	Thread tubes
UZ-38.5-LID	96-00130	Lid	With O-Ring		for	38,5ml	Thread tubes
UZ-94.5-LID	96-00131	Lid	With O-Ring		for	94ml	Thread tubes

Ice Cool Buckets

Ice Cool Buckets are constructed of durable plastic and offer both robustness and long life. They are durable skinned to provide long term storage of ice. In addition they are easily cleanable and their edges ensure easy handling. Acrylracks who fit to the buckets are available for the handling of microtubes in the ice.

Dimensions: KR-ICL: upper edge 185x185mm, base 100x100mm, depth 175mm
KR-ICS: 200 x 100mm

Cat. #	Description
KR-ICL	ice cool bucket 4 Liter
KR-ICS	ice cool bucket 1,4 Liter
KR-IC40	Rack for 40 x 0,5ml tubes
KR-IC16	Rack for 16 x 0,5/16 x 1,5ml
KR-IC32	Rack for 32 x 1,5ml tubes
KR-IC02	Rack for 32 x 2,0ml tubes



Acryl-racks for Microtubes and 50ml Falcon-tubes

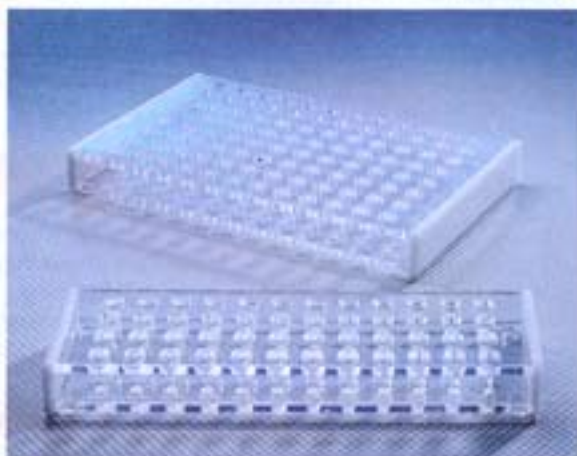
Acryl-racks for 50ml Falcon-tubes or tubes up to 29mm diameter

Cat. #	Description	Outer dimensions	Pack size
ST-A-10	10-place rack	230 x 90 x 100	1
ST-A-6	6-place rack	255 x 50 x 60	1



Acryl-racks for 1,5 and 2,0ml microtubes i.e. up to 10,7mm diameter

Cat. #	Description	Outer dimensions	Pack size
ST-A-96	96-place rack	275 x 167 x 34	1
ST-A-48	48-place rack	275 x 85 x 34	1



Pipettorstand

- Ergonomical: slightly curved to the user
- universal fitting for all pipettors
- material: easy to clean, 3mm thick acryl
- Outer dimensions: 20 x 12 x 10cm w x h x d

Cat. #	Description	Pack size
R-048	Pipettorstand, 4 places	1



Tube Racks

These racks are made of autoclavable polypropylen and they are ideal for storage and drying of tubes and glass plates for electrophoresis. They can also be used in a waterbath and drainage holes will cause racks to sink.

Cat. #	Places	Dimensions	Pack size
R049-50	50 Tubes 14-17mm	178x95x63mm LxBxH	1
R049-80	80 Tubes 10-13mm	228x89x60mm LxBxH	1



TwoRow Rack, 2 x 10 Plätze for 1,5/2,0ml Tubes

- made of autoclavable polypropylene, numerical places, 2 rows with 10 places each
- interlockable for experiments with larger quantities of samples, dimensions 210x89x50mm

Cat. #	Description/Color	Pack size
R046-B	TwoRow Rack, blue	1
R046-R	TwoRow Rack, red	1
R046-W	TwoRow Rack, white	1



Combi-Rack

The 4-way rotatable Combi Rack is designed to accept a variety of tube sizes. To save space, the rack may be used on a bench top or under a hood. It is manufactured from polypropylen and can be autoclaved or stored in a freezer up to -80°C . The racks can be fitted together on the flat sides, to get a higher number of storage possibilities. For better identification of the samples, the places are coded numerically. Following tubes can be placed:

- 4 conical tubes á 50ml
- 12 conical tubes á 15ml
- 32 tubes; 12 x75mm
- 32 tubes; 1,5/2,0ml
- 32 tubes; 0,5ml
- 32 tubes; 0,5ml

Cat. #	Color	Pack size
R001	neon mix	5 Racks
R001-N	natural	1 Rack
R001-B	neon blue	1 Rack
R001-GR	neon green	1 Rack
R001-GE	neon yellow	1 Rack
R001-O	neon orange	1 Rack
R001-P	neon pink	1 Rack



Combi-Rack Maxi

Based on the popular Combi Rack principle it has larger dimensions (100 x 100 x 200mm)

Following tubes can be placed:

- 8 x 50mm conical centrifuge tubes
- 20 x 20mm \varnothing Tubes
- 24 x 15ml conical centrifuge tubes
- 40 x 1,5 or 2,0ml Tubes (13mm \varnothing)

Cat. #	Color	Pack size
R029-B	neon blue	1



Tube-Cube-System

The Tube Cube System is also a 4-way rack consisting of 4 independent cubes, placed in a clear support tray. It is made of polypropylen and can be used in a freezer and be autoclaved. Each rack can be rotated independently and following tubes can be accommodated in each rack:

conical tubes 15ml and 50ml

- 12 tubes \hat{S} 75mm \varnothing
- 13 tubes \hat{S} 100mm \varnothing
- 16 tubes \hat{S} 12,5mm \varnothing
- 17 tubes \hat{S} 100mm \varnothing

Centrifuge tubes 1,5ml and 2,0 ml

Cat. #	Color	Pack unit
R002	neon gemischt	4 Racks mit Tray



Fraction collection Racks

These very often used racks are ideal for storage, inventory and bench top work rack for 1,5ml and 2,0ml tubes. Made of durable polypropylen, it can be autoclaved and stored down to -80°C . The 80 sample wells have a conical shape to concentrate samples collected directly into the rack. Each rack has a frosted labeling area and the wells, positioned in 5 rows with 16 places are numerical coded for easy identification. With use of the clear lids (R004), the racks can be stacked easy.

Cat. #	Color/Description	Pack size
R003	Racks transparent	5 Racks
R003-A	Racks neon mix	5 Racks
R004	Stapel-lid, natural	1 lid
R003-FB	Rack neon blue	1
R003-FG	Rack neon green	1
R003-FO	Rack neon orange	1
R003-FP	Rack neon pink	1
R003-FY	Rack neon yellow	1

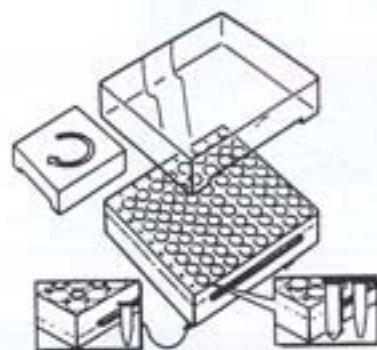


BestRacks, 64 and 96 places

These double sided racks are made of durable polypropylen. The wide spacing allows easy handling and storage on one side of 64/96 x 1,5/2,0ml tubes, on the reverse side of 64/96 x 0,5ml. The racks are autoclavable, identification of samples is easy through the alpha-numerical coding and the frosted writing area on the sides. Available as an option is a transparent lid for storage or mixing tubes placed in the rack.

Dimensions: 64 Rack (8 x 8): 13,1 x 13,4 x Height 4,2 or 5,0mm(2 lid positions)
96 Rack (12x8): 11,8 x 21,3 x Height 4,7 or 4,9mm(2 lid positions)

Cat. #	No. of places	Pack size / Color
R006	64	5 Racks neon mix
R007	64	5 Racks natural
R006-B	64	1 Rack neon blue
R006-G	64	1 Rack neon green
R006-O	64	1 Rack neon orange
R006-P	64	1 Rack neon pink
R006-Y	64	1 Rack neon yellow
R008	Lid for 64 Rack	1 Lid natural
R009	96	5 Racks neon mix
R010	96	5 Racks natural
R009-B	96	1 Rack neon blue
R009-G	96	1 Rack neon green
R009-O	96	1 Rack neon orange
R009-P	96	1 Rack neon pink
R009-Y	96	1 Rack neon yellow
R011	Lid for 96 Rack	1 Lid natural



PCR Reversible Rack, 96 well with hinged, removable lid

A user-friendly work and storage rack for 96 x 1,5/2,0ml tubes on one side or 96 x 0,5ml tubes on the other side. Made from autoclavable polypropylene with longer handles, alpha numeric coding at the wells, labeling area on the lid. Racks can be used in the freezer up to -80°C . Colored pack includes blue, green, pink, yellow, orange

Cat. #	Description	Color / Quantity
R041-1	96-Reversible Rack with Lid	natural / 1 rack
R041	96-Reversible Rack with Lid	natural / 5 racks
R041-A	96-Reversible Rack with Lid	colored/ 5 racks



Combi PCR Rack

- Side 1: space for 168 x 0,2ml tubes (also for tubes in strip-form) and 12 x 1,5ml tubes
- Side 2: space for 40 x 0,5ml and 12 x 1,5ml tubes
- a simple to use removable hinged lid, that snaps in place on both sides

Cat. #	Description	Color / Quantity
R044-1	96-Rev. PCR-Racks with lid	natural / 1 rack
R044	96-Rev. PCR-Racks with lid	natural / 5 racks
R044-A	96-Rev. PCR-Racks with lid	colored / 5 racks



PCR-Rack, 96 well with hinged, removable lid

Autoclavable polypropylene rack for storage or working with 0,2ml Tubes, 8 or 12 tube strips.
Removable hinged lid, open wells for placing in ice bath, imprinted alpha-numerical system.
Available in packs of 5 natural or colored (blue, green, pink, yellow, orange).

Cat.#	Description	Quantity
R040-N	PCR-Rack, natural	5
R040-A	PCR-Rack, colored mix	5
R040-B	PCR-Rack, blue	1
R040-G	PCR-Rack, green	1
R040-Y	PCR-Rack, yellow	1



PCR-Workstation

The PCR Workstation offers places for all tubes, needed for pre or post PCR applications. The PCR Workstation is a combination of a basic rack, which accepts 24 x 1,5/2,0ml tubes, 16 x 0,5ml tubes und 32 x 0,2ml tubes and a 96 place „Satellite“ rack, which clips onto the workstation (over the existing 0,2ml holes). This „Satellite“ rack accomodates all 0,2ml PCR tube configurations, like single tubes, 8-strip-tubes, 12-strip tubes and PCR plates. All tube wells of the racks have an alpha-numerical identification system. The PCR Workstation can be used at temperatures down to -80°C. The „Satellite“ racks are also available in packs of 5 separately without the PCR-Workstation.

Components Workstation: PCR-Basisrack with lid + Satellite rack

Cat. #	Color	Pack size
R028-B	Neon blue	1
R028-G	Neon green	1
R028-O	Neon orange	1
R028-P	Neon pink	1
R028-Y	Neon yellow	1
R028-S	Sat. Rack w. lid	5 racks



Multi-Channel Disposable Solution Basins

- a useful help for working with multi-channel pipettors
- filling volume 55ml, angled sides and V-shaped bottom for nearly complete sample withdrawal
- offered in clear PCV non-sterile

Cat. #	Description	Pack size
R047	Reservoir transparent	10 basins



VariRack

This rack is designed as the name suggests. It offers a combination of storage solutions in a single rack. The rack is made from polypropylen, autoclavable, freezable to -80°C and features an alphanumeric coding. It is supplied including lid and has following dimensions: 168x 82 50mm (LxWxH including lid)

Stores following tubes: 1.side:32 x 1,5/2,0ml + 8 x 0,5ml

2.side:32 x 0,5ml + 8 x 1,5/2,0ml

Colors: blue – green –orange – pink – yellow

Cat. #	Pack size
R43	5 natural
R43-A	5 colored mix



Latex Disposable Gloves

- soft, comfortable latex gloves
- highly sensitive touch with extreme puncture
- powder free, no contamination of your samples with powder, length: 24cm
- extra small or extra large available on request

Cat. #	Description	Size
MLG-S	Latex powder free	small
MLG-M	Latex powder free	medium
MLG-L	Latex powder free	large



Nitrile Disposable Gloves

- very comfortable soft blue nitrile gloves which provide highly sensitive touch with extreme puncture
- extremely resistant to chemicals, especially acrylamide and ethidium bromide which is used in many labs for gel staining procedures
- Puderfrei: no contaminations of your samples with powder
- Latexfrei: no risk of manifesting latex allergies – protein free
- Length: 24cm – packed: 10 boxes of 100 gloves

Cat. #	Description	Size
MNG-SS-S	Nitrile Gloves SafeSkin	small
MNG-SS-M	Nitrile Gloves SafeSkin	medium
MNG-SS-L	Nitrile Gloves SafeSkin	large
MNG-NT-S	Nitrile Gloves Nitratex	small
MNG-NT-M	Nitrile Gloves Nitratex	medium
MNG-NT-L	Nitrile Gloves Nitratex	large



Nitratex



SafeSkin

Slide Boxes colored, for 100 Slides

The slide boxes have cork lining on the bottom, to protect the slides. On the inside cover of the box is a corresponding inventory slide sheet. The boxes can be stored securely on top of each other and are closed with a rust resistant nickel plated clasp and hinge pin. Dimensions are 222 x 171 x 33mm (LxWxH) Optional we offer stainless steel freezer racks to store the slide boxes in upright freezers for longtime storage of temperature sensitive samples. You find infos and prices in the chapter CRYO PRODUCTS.

Cat.#	Color	Pack size
R100-B	blue	1
R100-G	green	1
R100-Y	yellow	1
R100-R	red	1
R100-W	white	1
R100-GRA	grey	1
R100-SCH	black	1



Stainless steel racks Slideboxes for upright freezer

Cat.#	number of boxes	W x L x H in mm
OSG-5/2	5 hoch x 2 tief	187 x 466 x 189
OSG-6/2	6 hoch x 2 tief	187 x 466 x 227
OSG-7/2	7 hoch x 2 tief	187 x 466 x 264
OSG-8/2	8 hoch x 2 tief	187 x 466 x 302
OSG-5/3	5 hoch x 3 tief	187 x 688 x 189
OSG-6/3	6 hoch x 3 tief	187 x 688 x 227
OSG-7/3	7 hoch x 3 tief	187 x 688 x 264
OSG-8/3	8 hoch x 3 tief	187 x 688 x 302



Embedding Cassettes for Histology

The embedding cassettes are useful for paraffin-embedding of histological cuts. The cassetts are easy to write on the side and are resistant to solvents and decalcifying agents.

We are offering them in seven different colors.

- biopsy cassette: base and lid with small holes
- universal cassette: base and lid slotted
- standard cassette without lid, bigger holes
- packaging unit: 500 cassettes

Cat. #	Type of cassette	Color
HBK-W	Biopsy	white
HBK-RA	Biopsy	pink
HBK-G	Biopsy	green
HBK-Y	Biopsy	yellow
HBK-B	Biopsy	blue
HBK-R	Biopsy	red
HBK-GRA	Biopsy	grey
HUK-W	Universal	white
HUK-RA	Universal	pink
HUK-G	Universal	green
HUK-Y	Universal	yellow
HUK-B	Universal	blue
HUK-R	Universal	red
HUK-GRA	Universal	grey
HSK-W	Standard	white
HSK-RA	Standard	pink
HSK-G	Standard	green
HSK-Y	Standard	yellow
HSK-B	Standard	blue
HSK-R	Standard	red
HSK-GRA	Standard	grey

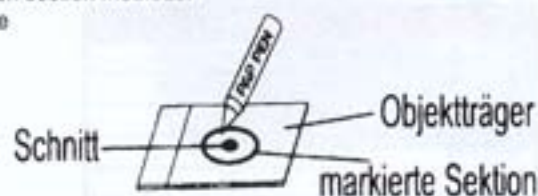


PAP PEN

PAP PEN is designed to provide a water repellent barrier when a circle is drawn around a specimen. The barrier of the PAP PEN retains antisera within the defined area and ensures that only the amount of antibody needed for sufficient reaction is used. The PAP PEN stops spreading, reduces waste and divides slides into discrete areas for immunostaining, histology, cytology, cell culture, virology, microbiology. The PAP PEN is effective for immunostaining, PAP method, ABC method, ASD method, enzyme and frozen section methods.

The staining is insoluble in acetone and alcohol and can be removed if desired by xylene after the staining procedure.

Cat. #	Description	Pack size
MKP-1	Pap Pen Immunostaining Pen	1
MKP-2	Pap Pen Immunostaining Pen, extra thick	1



Chest freezer Value Line

Laboratory chest freezer with condenser in outer jacket. Natural air circulation and manual thawing. condensation drain integrated in base. Operating panel in front cover with electronic control and digital display (LED). With acoustic alarm and no-Volt remote alarm contact. External casing and interior made of specially galvanized steel panelling with white coating. Lockable lid with special seal all round and spring-loaded hinges to allow opening at any angle. Inner covering included (only -83°C). With wheels (except 74 liter chest), supplied separately.



Cat. #	Temp. range	Brutto content	Outer dim. mm	Inner dim. mm	Height w. lid open	Weight	Volt/Hz/Ph
VL-7453	-30/-53 °C	74 Liters	555x635x885	385x385x470	1480 mm	45 kg	220-240/50/1
VL-14053	-30/-53 °C	140 Liters	720x600x885	560x442x650	1480 mm	64 kg	220-240/50/1
VL-29653	-30/-53 °C	296 Liters	1160x695x885	890x442x610	1500 mm	85 kg	220-240/50/1
VL-38353	-30/-53 °C	383 Liters	1560x695x885	1190x442x610	1500 mm	98 kg	220-240/50/1
VL-7483	-40/-83 °C	74 Liters	555x695x885	385x385x470	1480 mm	45 kg	220-240/50/1
VL-29683	-40/-83 °C	296 Liters	1260x695x885	890x442x610	1500 mm	85 kg	220-240/50/1
VL-38383	-40/-83 °C	383 Liters	1560x695x885	1190x442x610	1500 mm	98 kg	220-240/50/1

Chest freezer ProfilLine ECC

Laboratory chest freezer with natural air circulation. Maintenance free high power cooling system with nearly noise and vibration free cooling compressors, aircooled. Electronic control with digital display (LED). Includes optical and acoustical alarm device with independent circuit and floating contact for connection to an alarm system on the premises. Exterior case with stainless steel covering and corrosion protection. Double sealing and intermediate lid avoid loss of cold while opening. Interior made of special coated steel with smooth surface for easy cleaning. With Rolls. Refrigerant: 1. level R134a / R040a, 2. level: R508b



Cat. #	Temp. range	Brutto content	Outer dim. mm	Inner dim. mm	Height w. lid open	Weight	Volt/Hz/Ph
ECC 1085-5	-60/-85 °C	90 Liters	737x686x1118	483x419x432	1750 mm	115 kg	220-240/50/1
ECC 2085-5	-60/-85 °C	193 Liters	1232x737x1041	597x483x673	1750 mm	193 kg	220-240/50/1
ECC 3085-5	-60/-85 °C	292 Liters	1530x737x1041	895x483x673	1750 mm	209 kg	220-240/50/1
ECC 4085-5	-60/-85 °C	388 Liters	1829x737x1041	1194x483x673	1750 mm	242 kg	220-240/50/1
ECC 5085-5	-60/-85 °C	484 Liters	2127x737x1041	1492x483x673	1750 mm	248 kg	220-240/50/1
ECC 6085-5	-60/-85 °C	580 Liters	2426x737x1041	1791x483x673	1750 mm	274 kg	220-240/50/1

Übersicht Edelstahl- Gestelle für Truhen.	-Boxen (Kartonmaterial)			Cryo Boxen (Kunststoff PP)		
Modell-Nr.	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen
ECC 10 -5	9 x 7	9 x 5	9 x 4	9 x 7	9 x 5	9 x 4
ECC 20 -5	12 x 12	12 x 8	12 x 6	12 x 12	12 x 8	12 x 6
ECC 30 -5	18 x 12	18 x 8	18 x 6	18 x 12	18 x 8	18 x 6
ECC 40 -5	24 x 12	24 x 8	24 x 6	24 x 12	24 x 8	24 x 6
ECC 50 -5	30 x 12	30 x 8	30 x 6	30 x 12	30 x 8	30 x 6
ECC 60 -5	36 x 12	36 x 8	36 x 6	36 x 12	36 x 8	36 x 6

Table top freezer ProfiMaster PMU03

Laboratory upright freezer with natural air circulation. Heavy-duty refrigeration system, maintenance free, between -55°C to -80°C cascade connection, with industrial grade hermetically sealed refrigeration compressors and reliable cascade refrigeration ton minimize noise and vibration, aircooled. Operating panel with microprocessor driven temperature controller and digital display (LED). Includes optical and acoustical alarm device with independent circuit and floating contact for connection to an alarm system on the premises. 10mV/K terminal for connection to our temperature recorder. Exterior case with stainless steel covering, lateral parts white, sheet steel. Two doors (inside and outside), front door lockable. Door stop on left. Interior made of stainless steel without mounted equipment, making it especially hygienic and easy to clean.



Cat. #	Temperature	Brutto content	Outer dim.	Inner dim.	Depth *	Weight	Volt/Hz/Ph	Refrigerant
PMU0340	$-10/-40$	30	810x560x490	330x300x280	1030 mm	61	230/50/1	R507
PMU0350	$-30/-50$	30	810x560x490	330x300x280	1030 mm	63	230/50/1	R507-x
PMU0380	$-70/-80$	30	810x560x490	330x300x280	1030 mm	82	230/50/1	R507/R508-P

* Depth at opened Door

Storage System

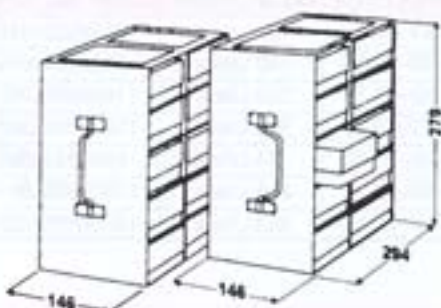
Cat.# PMU03-OS Euro 252,50

Consisting of:

2 stainless steel racks for 10 Boxes each, Eppli-Maxi

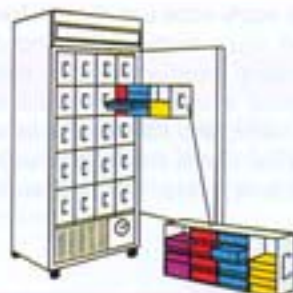
20 Boxes Eppli-Maxi white, 10 x 10 divider

for 100 x 1,5/2,0ml Tubes each



Upright freezer ProfiLine ECU

Laboratory upright freezer with natural air circulation. Maintenance free high power cooling system with nearly noise and vibration free cooling compressors, aircooled. Electronic control with digital display (LED). Includes optical and acoustical alarm device with independent circuit and floating contact for connection to an alarm system on the premises. Exterior case with stainless steel covering and corrosion protection. Double sealing and intermediate lid avoid loss of cold while opening. Interior made from special coated steel with smooth surface for easy cleaning. With Rolls. Refrigerant: 1. level R134a / R040a, 2. level: R508b



	Temperature	Brutto content	Outer dim.	Inner dim.	Depth: Door open	Weight	Volt/Hz/Ph
ECU 4085-5	$-60/-85^{\circ}\text{C}$	379 Liter	935x760x1980	597x483x1283	1590 mm	247 kg	220-240/50/1
ECU 5085-5	$-60/-85^{\circ}\text{C}$	487 Liter	935x905x1980	597x635x1283	1730 mm	268 kg	220-240/50/1
ECU 6085-5	$-60/-85^{\circ}\text{C}$	572 Liter	1065x905x1980	724x616x1283	1840 mm	286 kg	220-240/50/1
ECU 7085-5	$-60/-85^{\circ}\text{C}$	691 Liter	1215x905x1980	876x616x1283	2010 mm	316 kg	220-240/50/1

Übersicht
Edelstahl-
Gestelle für
Schränke.

-Boxen (Kartonmaterial)

Cryo Boxen (Kunststoff)

Modell-Nr.	-Boxen (Kartonmaterial)			Cryo Boxen (Kunststoff)		
	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen	Anzahl Gestelle x Boxen
ECU 40...-5	20 x 12	20 x 6	20 x 6	20 x 12	20 x 6	20 x 6
ECU 50...-5	20 x 16	20 x 8	20 x 8	20 x 16	20 x 8	20 x 8
ECU 60...-5	25 x 16	25 x 8	25 x 8	25 x 16	25 x 8	25 x 8
ECU 70...-5	30 x 16	30 x 8	30 x 8	30 x 16	30 x 8	30 x 8

Thermostat-Upright freezers

Thermostat-Upright Freezers are used for continuous tempering for different applications, e.g. sample storage (4°C), estimation of enzyme activities (25°C) or colony quantity at 37°C. The temperature range is from 4°C to 40°C, service free and reliable controlled with $\pm 0,5^\circ\text{C}$ constant temperature.

Technical specifications:

- completely isolated freezer with universal temperature-control unit
- 2-fold isolated glass in eloxated Aluframe (model with glass door)
- water protected foil front
- setting 4–40°C in 1°C-steps
- 2-LCD-displays
- radial fan, air stream 320m³/h

Technical specification EX –laboratory freezer:

- setting infinitely variable 2–12°C
- automatic defrost
- lockable door, inside made of white PS
- Ex-protection: inside free of inflammable matter



Cat.#	Volume in Liters	Inserts	Door	Weight	Inner dim. LxWxH in mm	Outer dim. LxWxH in mm
TS-ST-180	180	3	Standard	39,00 kg	513 x 433 x 702	602 x 600 x 850 mit Arbeitsplatte
TS-GT-180	180	3	Glas	50,00 kg	513 x 433 x 702	602 x 600 x 855 mit Arbeitsplatte
TS-ST-260	260	4	Standard	49,00 kg	513 x 433 x 1074	602 x 600 x 1200
TS-GT-260	260	4	Glas	66,50 kg	513 x 433 x 1200	602 x 600 x 1200
TS-ST-360	360	5	Standard	64,50 kg	513 x 433 x 1418	602 x 600 x 1611
TS-GT-360	360	5	Glas	82,00 kg	513 x 433 x 1418	602 x 600 x 1611
TS-ST-500	500	6	Standard	79,50 kg	646 x 516 x 1338	755 x 715 x 1515
TS-GT-500	500	6	Glas	96,50 kg	646 x 516 x 1338	755 x 715 x 1515
EX-protected	Refriger				Inner dim. HxWxT in mm	Outer dim. HxWxT in mm
TEX-180	180	3	Standard	37,00 kg	734 x 513 x 433	850 x 602 x 600
TEX-260	260	4	Standard	46,50 kg	1047 x 513 x 433	1215 x 602 x 600
TEX-360	360	5	Standard	62,00 kg	1418 x 513 x 433	1589 x 602 x 600
TEX-500	500	5	Standard	77,00 kg	1338 x 646 x 516	1515 x 755 x 715

Quali – Stickers „hot – cold“

Quali – Stickers are precut labels for tubes 0,2–2,0ml. They are convenient to use, simply write on the label, peel off from the backing paper and press into position on the tube. Quali – Stickers are temperature resistant from -196°C to $+121^\circ\text{C}$.

Quali – stickers adhere to all plastics, they will not smear, dry out, peel or fall off. Quali stickers can be used in freezers, liquid nitrogen and boiling water. They will accept all marker pens and are supplied in rolls of 1000 stickers, except the laser stickers, which are supplied on sheets and come with printing instructions.

Cat. #	Size	for tubes	Pack size
HK-20	32,5 x 13 mm	1,5/2,0ml	1000 Stickers
HK-95-L	9,5mm D	for Laserprint	3840 Stickers
HK-12-L	13mm D	for Laserprint	3840 Stickers
HK-L	32,5 x 13 mm	for Laserprint	2040 Stickers



Cryoboxes with hinged lid for 50 und 100 1,5/2,0ml tubes

The 100 place cryobox features a three point hinged lid, that locks for secure lid closure. The 100 place cryobox also features imprinted coordinates on the base and molded grid lines on the lid. The neon mixed versions include blue, green, pink, yellow and orange. The cryobox withstands -80°C and the hinged lid is easy to open even when frozen.

Dimensions: R030: 141 x 80 x 55mm (W x D x H)

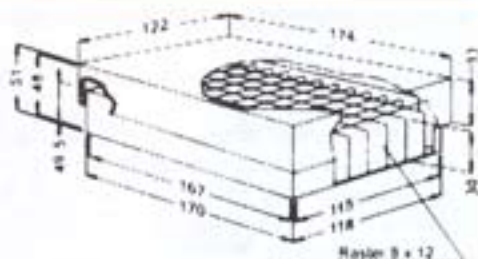
Dimensions: R031: 141 x 155 x 55mm (W x D x H)

Cat.#	Places / ml	Color	Pack size
R030	50 x 1,5/2,0	Natural	5
R030-A	50 x 1,5/2,0	Neon mix	5
R031	100 x 1,5/2,0	Natural	5
R031-A	100 x 1,5/2,0	Neon mix	5



Quali – 96 place Cryo Card Box for 1,5 & 2,0ml Tubes

Makes sampel storage easy: in the 96 format of your experiments.
Expanded places for easy handling of your tubes.
White card box made from deep temperature resistant waterproof cardboard material.
Dimensions: 174 x 122 x 51mm
Divider: 8 x 12places/ 30mm height



Cat.#	Description	Size	Pack size
R096	Quali-96 place	174 x 122 x 51mm	1

Cryobox with telescope lid, our new 81 place topversion, improved version

Only this 81 place cryobox has imprinted coordinates on the base, the lid is now glass clear for better sample identification. This polypropylene cryobox can be stored and autolaved up to -150°C , and is available in neon colors blue, green, orange, pink and yellow. Dimensions: R14 & R15: 130 x 130 x 45mm (W x D x H)

Cat. #	Color	Pack size
R014	natural	5
R015	neon mix	5
R014-1	natural	1
R015-B	neon blue	1
R015-GR	neon green	1
R015-GE	neon yellow	1
R015-O	neon orange	1
R015-P	neon pink	1



Economy Cryobox Series with Telescopelid, size 130 x 130 x 45mm

This box made of deep temperature resistant polypropylene, freezable up to -190°C and autoclavable. Transparent telescope lid for easy sample identification. The boxes with 9 x 9 dividers are available in different colors: 5 x neon, 7 x standard. The boxes with other dividers or blank boxes are neon colored and can be delivered in other colors on request.

9 x 9 Places	
Cat. #	Colors
R034	Natural
R034-NGE	neon-yellow
R034-NBL	neon-blue
R034-NGR	neon-green
R034-NPI	neon-pink
R034-NOR	neon-orange

9 x 9 Places	
Cat. #	Colors
R034-W	white
R034-GE	yellow
R034-BL	blue
R034-GR	green
R034-RO	red
R034-PI	pink
R034-SW	black



7 x 7 Places	
Cat. #	Colors
R034-7	natural
R034-7-NGE	neon-yellow
R034-7-NBL	neon-blue
R034-7-NGR	neon-green
R034-7-NPI	neon-pink
R034-7-NOR	neon-orange

8 x 8 Places	
Cat. #	Colors
R034-8	natural
R034-8-NGE	yellow
R034-8-NBL	blue
R034-8-NGR	green
R034-8-NPI	pink
R034-8-NOR	orange



Box without divider	
Cat. #	Colors
R034-B	natural
R034-B-NGE	neon-yellow
R034-B-NBL	neon-blue
R034-B-NGR	neon-green
R034-B-NPI	neon-pink
R034-B-NOR	neon-orange

Dividers 30 mm	
Cat. #	Divider
R034-R-13	13x13
R034-R-12	12x12
R034-R-10P	10x10
R034-R-9P	9x9
R034-R-8P	8x8
R034-R-7	7x7

R-10P / -9P / -8P = Plastic divider

Cryoboxes Polypropylene 130x130mm, variable height 70–80mm

Made from rigid ultra low temperature polypropylene with hightransparent lid, neon – colours, storage up to 80°C possible, autoclavable.

Cat.#	Tubes mm \varnothing	Places	Dim. in mm
R039-natural	12,5	9 x 9	130x130x70–80
R039-yellow	12,5	9 x 9	130x130x70–80
R039-blue	12,5	9 x 9	130x130x70–80
R039-green	12,5	9 x 9	130x130x70–80
R039-red	12,5	9 x 9	130x130x70–80
R039-orange	12,5	9 x 9	130x130x70–80
R039-7-natural	16,5	7 x 7	130x130x70–80
R039-7-yellow	16,5	7 x 7	130x130x70–80
R039-7-blue	16,5	7 x 7	130x130x70–80
R039-7-green	16,5	7 x 7	130x130x70–80
R039-7-red	16,5	7 x 7	130x130x70–80
R039-7-orange	16,5	7 x 7	130x130x70–80
R039-1-natural	without divider	1	130x130x70–80
R039-1-yellow	without divider	1	130x130x70–80
R039-1-blue	without divider	1	130x130x70–80
R039-1-green	without divider	1	130x130x70–80
R039-1-red	without divider	1	130x130x70–80
R039-1-orange	without divider	1	130x130x70–80
R039-R-13	8,0	13 x 13	Divider 30 H
R039-R-12	9,0	12 x 12	Divider 30 H
R039-R-10P	12,0	10 x 10	Divider 30 H
R039-R-9P	13,0	9 x 9	Divider 30 H
R039-R-8P	14,0	8 x 8	Divider 30 H
R039-R-7	16,5	7 x 7	Divider 30 H
R039-R-6	19,5	6 x 6	Divider 30 H
R039-R-5	23,5	5 x 5	Divider 30 H



Cat.#	Description
R039-R65-13	Divider 65 H
R039-R65-12	Divider 65 H
R039-R65-10	Divider 65 H
R039-R65-9	Divider 65 H
R039-R65-8	Divider 65 H
R039-R65-7	Divider 65 H
R039-R65-6	Divider 65 H
R039-R65-5	Divider 65 H

Cryoboxes Polypropylene for 0,2ml – 0,5ml – 15ml and 50ml Tubes

Made from rigid ultra low temperature polypropylene with hightransparent lid, neon – colours, storage up to –150°C possible, autoclavable.

Cat.#	Tubes	Places	Dim. in mm
R035-natural	PCR 0,2ml	12 x 12	130 x 130 x 32
R035-yellow	PCR 0,2ml	12 x 12	130 x 130 x 32
R035-blue	PCR 0,2ml	12 x 12	130 x 130 x 32
R035-green	PCR 0,2ml	12 x 12	130 x 130 x 32
R035-red	PCR 0,2ml	12 x 12	130 x 130 x 32
R035-orange	PCR 0,2ml	12 x 12	130 x 130 x 32
R036-natural	Mini 0,5ml	10 x 10	130 x 130 x 37
R036-yellow	Mini 0,5ml	10 x 10	130 x 130 x 37
R036-blue	Mini 0,5ml	10 x 10	130 x 130 x 37
R036-green	Mini 0,5ml	10 x 10	130 x 130 x 37
R036-red	Mini 0,5ml	10 x 10	130 x 130 x 37
R036-orange	Mini 0,5ml	10 x 10	130 x 130 x 37
R037-natural	Cell Box 15ml	25	130 x 130 x 128
R037-yellow	Cell Box 15ml	25	130 x 130 x 128
R037-blue	Cell Box 15ml	25	130 x 130 x 128
R037-green	Cell Box 15ml	25	130 x 130 x 128
R037-red	Cell Box 15ml	25	130 x 130 x 128
R037-orange	Cell Box 15ml	25	130 x 130 x 128
R038-natural	Cell Box 50ml	10 + 2	130 x 130 x 128
R038-yellow	Cell Box 50ml	10 + 2	130 x 130 x 128
R038-blue	Cell Box 50ml	10 + 2	130 x 130 x 128
R038-green	Cell Box 50ml	10 + 2	130 x 130 x 128
R038-red	Cell Box 50ml	10 + 2	130 x 130 x 128
R038-orange	Cell Box 50ml	10 + 2	130 x 130 x 128

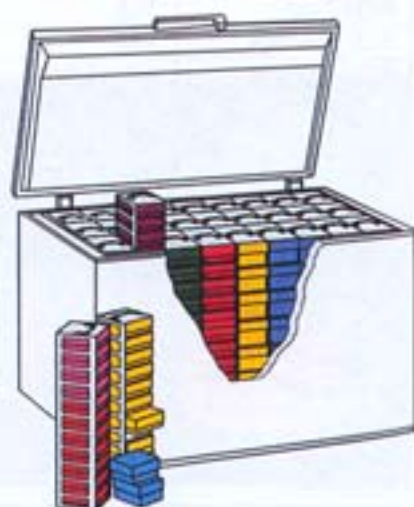


Stainless Steel Inventory racks

Inventory racks with handle for freezers to store cryoboxes up to 136 x 136 mm surface area and 50/75/100mm height.

Cat. #	Number of boxes x box height	Dim. in mm W x D x H
TG-5	5 x 50 mm	141 x 141 x 279
TG-6	6 x 50 mm	141 x 141 x 334
TG-7	7 x 50 mm	141 x 141 x 389
TG-8	8 x 50 mm	141 x 141 x 444
TG-9	9 x 50 mm	141 x 141 x 499
TG-10	10 x 50 mm	141 x 141 x 554
TG-11	11 x 50 mm	141 x 141 x 609
TG-12	12 x 50 mm	141 x 141 x 664
TG-13	13 x 50 mm	141 x 141 x 719
TG-14	14 x 50 mm	141 x 141 x 774
TG-75-4	4 x 75 mm	141 x 141 x 325
TG-75-6	6 x 75 mm	141 x 141 x 485
TG-75-7	7 x 75 mm	141 x 141 x 565
TG-75-8	8 x 75 mm	141 x 141 x 645
TG-75-9	9 x 75 mm	141 x 141 x 725
TG-75-10	10 x 75 mm	141 x 141 x 805
TG-100-3	3 x 100mm	141 x 141 x 320
TG-100-4	4 x 100mm	141 x 141 x 425
TG-100-5	5 x 100mm	141 x 141 x 530
TG-100-6	6 x 100mm	141 x 141 x 635
TG-100-7	7 x 100mm	141 x 141 x 740
TG-100-9	9 x 100mm	141 x 141 x 950
TG-130-3	3 x 130mm	141 x 141 x 410
TG-130-4	4 x 130mm	141 x 141 x 545
TG-130-5	5 x 130mm	141 x 141 x 680

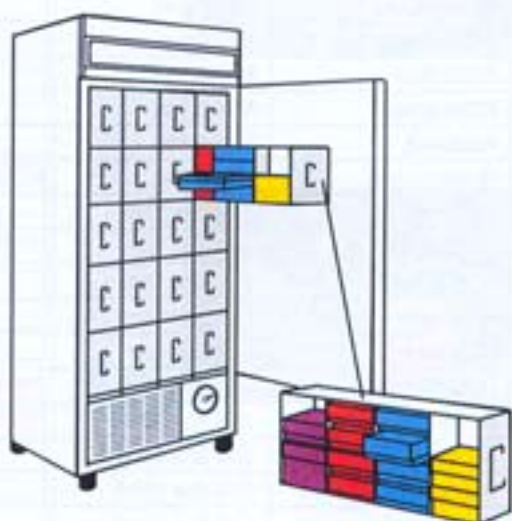
Further sizes and custom manufacturing on request.



Stainless steel racks for upright freezers

Inventory racks with handle for upright freezers for boxes up to 136 x 136mm surface area and 50/75/100mm height

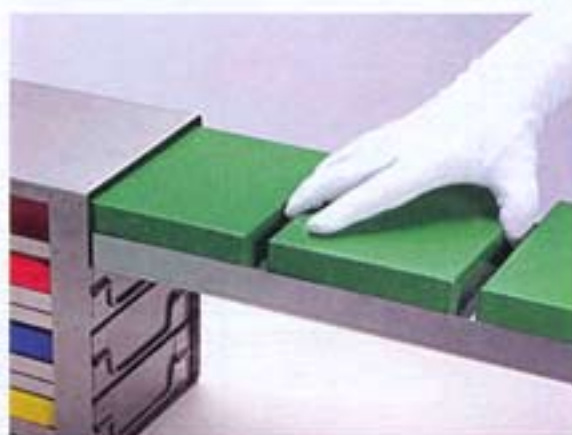
Cat. #	Number of boxes x box height	Dim. in mm W x D x H
SG-32-15	3 x 5 x 32 mm	142 x 425 x 185
SG-32-18	3 x 6 x 32 mm	142 x 425 x 224
SG-32-21	3 x 7 x 32 mm	142 x 425 x 264
SG-32-20	4 x 5 x 32 mm	142 x 565 x 185
SG-32-24	4 x 6 x 32 mm	142 x 565 x 224
SG-32-28	4 x 7 x 32 mm	142 x 565 x 264
SG-8	4 x 2 x 50 mm	142 x 285 x 223
SG-9	3 x 3 x 50 mm	142 x 425 x 169
SG-10	2 x 5 x 50 mm	142 x 285 x 277
SG-12	3 x 4 x 50 mm	142 x 425 x 223
SG-15	3 x 5 x 50 mm	142 x 425 x 277
SG-16	4 x 4 x 50 mm	142 x 565 x 223
SG-20	4 x 5 x 50 mm	142 x 565 x 277
SG-75-6	3 x 2 x 75 mm	142 x 425 x 163
SG-75-8	4 x 2 x 75 mm	142 x 565 x 163
SG-75-9	3 x 3 x 75 mm	142 x 425 x 242
SG-75-10	5 x 2 x 75 mm	142 x 705 x 163
SG-75-12	4 x 3 x 75 mm	142 x 565 x 242
SG-100-6	3 x 2 x 100mm	142 x 425 x 212
SG-100-8	4 x 2 x 100mm	142 x 565 x 212



Stainless steel racks for upright freezers with pull-out stopp

- Inventory racks with handle for upright freezers for boxes up to 130 x 130mm x 50mm (LxWxH)
- perfect overview
- no pull out of all racks to handle the boxes

Cat. #	Number of boxes DxD	W x D x H in mm
SGSA-2/2	2 x 2	140 x 301 x 123
SGSA-2/3	2 x 3	140 x 301 x 184
SGSA-2/4	2 x 4	140 x 301 x 245
SGSA-2/5	2 x 5	140 x 301 x 306
SGSA-2/6	2 x 6	140 x 301 x 367
SGSA-3/2	3 x 2	140 x 434 x 123
SGSA-3/3	3 x 3	140 x 434 x 184
SGSA-3/4	3 x 4	140 x 434 x 245
SGSA-3/5	3 x 5	140 x 434 x 306
SGSA-3/6	3 x 6	140 x 434 x 367
SGSA-4/2	4 x 2	140 x 567 x 123
SGSA-4/3	4 x 3	140 x 567 x 184
SGSA-4/4	4 x 4	140 x 567 x 245
SGSA-4/5	4 x 5	140 x 567 x 306
SGSA-4/6	4 x 6	140 x 567 x 367
SGSA-5/2	5 x 2	140 x 700 x 123
SGSA-5/3	5 x 3	140 x 700 x 184
SGSA-5/4	5 x 4	140 x 700 x 245
SGSA-5/5	5 x 5	140 x 700 x 306
SGSA-5/6	6 x 6	140 x 700 x 367

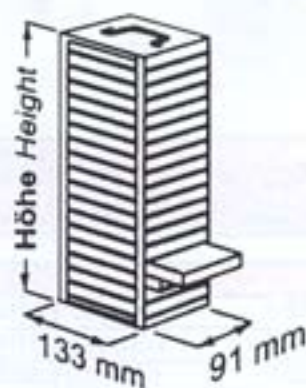


Further sizes and custom manufacturing on request

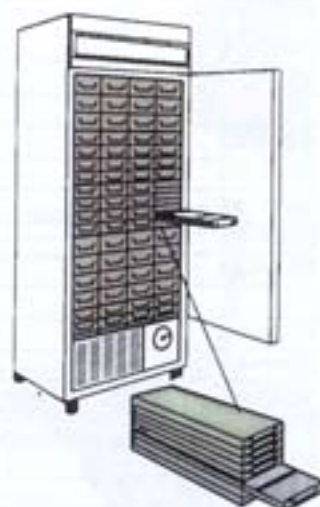
Inventory Racks for Microtiter Plates in format 86 x 128 x 18mm

Vertical stainless steel racks for chest freezer

Cat. #	Number of boxes/ box height	W x D x H in mm
MTG-15	15 / 18mm	91 x 133 x 305
MTG-16	16 / 18mm	91 x 133 x 325
MTG-17	17 / 18mm	91 x 133 x 345
MTG-18	18 / 18mm	91 x 133 x 365
MTG-19	19 / 18mm	91 x 133 x 385
MTG-20	20 / 18mm	91 x 133 x 405
MTG-21	21 / 18mm	91 x 133 x 425
MTG-22	22 / 18mm	91 x 133 x 445
MTG-23	23 / 18mm	91 x 133 x 465
MTG-24	24 / 18mm	91 x 133 x 485
MTG-25	25 / 18mm	91 x 133 x 505
MTG-26	26 / 18mm	91 x 133 x 525
MTG-27	27 / 18mm	91 x 133 x 545
MTG-28	28 / 18mm	91 x 133 x 565
MTG-29	29 / 18mm	91 x 133 x 585
MTG-30	30 / 18mm	91 x 133 x 605
MTG-31	31 / 18mm	91 x 133 x 625
MTG-32	32 / 18mm	91 x 133 x 645
MTG-33	33 / 18mm	91 x 133 x 665
MTG-34	34 / 18mm	91 x 133 x 685
MTG-35	35 / 18mm	91 x 133 x 705
MTG-36	36 / 18mm	91 x 133 x 725
MTG-37	37 / 18mm	91 x 133 x 745
MTG-38	38 / 18mm	91 x 133 x 765



Cat. #	Number of plates	W x D x H in mm
MSG-4/8	4 x 8	135 x 379 x 209
MSG-4/9	4 x 9	135 x 379 x 235
MSG-4/10	4 x 10	135 x 379 x 261
MSG-4/11	4 x 11	135 x 379 x 287
MSG-4/12	4 x 12	135 x 379 x 313
MSG-4/13	4 x 13	135 x 379 x 339
MSG-4/14	4 x 14	135 x 379 x 365
MSG-4/15	4 x 15	135 x 379 x 391
MSG-4/16	4 x 16	135 x 379 x 417
MSG-5/8	5 x 8	135 x 465 x 209
MSG-5/9	5 x 9	135 x 465 x 235
MSG-5/10	5 x 10	135 x 465 x 261
MSG-5/11	5 x 11	135 x 465 x 287
MSG-5/12	5 x 12	135 x 465 x 313
MSG-5/13	5 x 13	135 x 465 x 339
MSG-5/14	5 x 14	135 x 465 x 365
MSG-5/15	5 x 15	135 x 465 x 391
MSG-5/16	5 x 16	135 x 465 x 417
MSG-6/8	6 x 8	135 x 551 x 209
MSG-6/9	6 x 9	135 x 551 x 235
MSG-6/10	6 x 10	135 x 551 x 261
MSG-6/11	6 x 11	135 x 551 x 287
MSG-6/12	6 x 12	135 x 551 x 313
MSG-6/13	6 x 13	135 x 551 x 339
MSG-6/14	6 x 14	135 x 551 x 365
MSG-6/15	6 x 15	135 x 551 x 391
MSG-6/16	6 x 16	135 x 551 x 417



EPPI-Box A : Cryo and Storage Boxes

For storage of samples, material made for low temperatures, resistant waterproof cardbox (st = standard) or with additional special waterproof plastic cover (sp = special). All boxes are supplied with lid and dividers as described in different colors:

WE = white; GE = yellow; BL = blue; GR = green; RO = red

-1 = standard

-2 = special

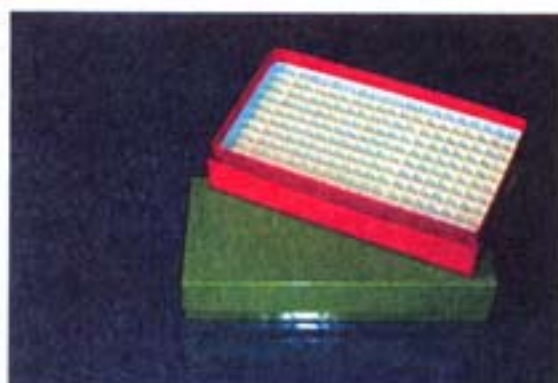


0,2ml	0,5ml + 0,75ml	1,5ml + 2,0ml	1,5ml + 2,0ml
EPPI-PCR A 0,2	EPPI-Mini A 0,5	EPPI-Basic A 1,5	EPPI-Maxi A 1,5
16 x 16 Places, 136x136x25mm	13 x 13 Places, 136x136x32mm	10 x 10 Places, 136x136x50mm	10 x 10 Places, 140x140x50mm

Cat. #	Cat. #	Cat. #	Cat. #
301115WE-1	301016WE-1	301100WE-1	301014WE-1
301115WE-2	301016WE-2	301100WE-2	301014WE-2
301115GE-1	301016GE-1	301100GE-1	301014GE-1
301115GE-2	301016GE-2	301100GE-2	301014GE-2
301115BL-1	301016BL-1	301100BL-1	301014BL-1
301115BL-2	301016BL-2	301100BL-2	301014BL-2
301115GR-1	301016GR-1	301100GR-1	301014GR-1
301115GR-2	301016GR-2	301100GR-2	301014GR-2
301115RO-1	301016RO-1	301100RO-1	301014RO-1
301115RO-2	301016RO-2	301100RO-2	301014RO-2

Eppi Box A: Cryoboxes long version

Same specification as described before, but in long form and double capacity



0,2ml	0,5ml + 0,75ml	1,5ml + 2,0ml	1,5ml + 2,0ml
Eppi-PCR A 0,2 „Jong“	Eppi-Mini A 0,5 „Jong“	Eppi-Basic A 1,5 „Jong“	Eppi-Maxi A 1,5 „Jong“
16 x 32 Place, 136x268x25mm	13 x 26 Place, 136x268x32mm	10 x 20 Place, 136x268x50mm	10 x 20 Place, 140x276x50mm

Cat. #	Cat. #	Cat. #	Cat. #
301115LWE-1	301016LWE-1	301100LWE-1	301014LWE-1
301115LWE-2	301016LWE-2	301100LWE-2	301014LWE-2
301115LGE-1	301016LGE-1	301100LGE-1	301014LGE-1
301115LGE-2	301016LGE-2	301100LGE-2	301014LGE-2
301115LBL-1	301016LBL-1	301100LBL-1	301014LBL-1
301115LBL-2	301016LBL-2	301100LBL-2	301014LBL-2
301115LGR-1	301016LGR-1	301100LGR-1	301014LGR-1
301115LGR-2	301016LGR-2	301100LGR-2	301014LGR-2
301115LRO-1	301016LRO-1	301100LRO-1	301014LRO-1
301115LRO-2	301016LRO-2	301100LRO-2	301014LRO-2

CellBox Tissue Culture; Cryo and Storage boxes for 15 ml and 50 ml Tubes

For storage of samples in tubes, boxes are made of deep temperature resisting waterproof cardbox (st= standard) or with additional special waterproof plastic cover (sp = special). Useful for all tubes up to 22mm Ø (for 15ml) or 34mm Ø (for 50ml) with a total length of 125mm.

All boxes are supplied with lid and dividers and available in different colors:
WE = white/ GE = yellow / BL = blue / GR= green / RO = red

- 1 = standard
- 2 = special

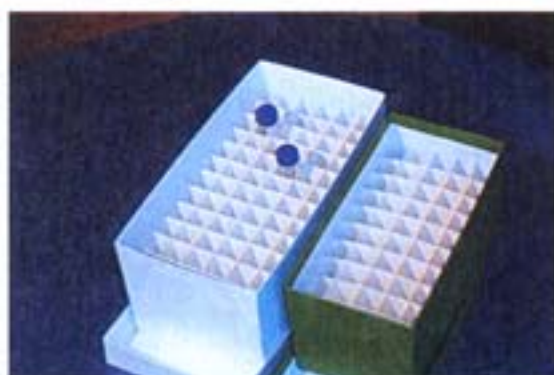


15ml	15ml	50ml	50ml
CellBox-Mini	CellBox-Maxi	CellBox-Mini	CellBox-Maxi
5 x 5 Places, 122 x122 x128mm	6 x 6 Places, 148 x148 x128mm	3 x 3 Places, 122 x122 x128mm	4 x 4 Places, 148 x148 x128mm

Cat. #	Cat. #	Cat. #	Cat. #
301017WE-1	301019WE-1	301018WE-1	301020WE-1
301017WE-2	301019WE-2	301018WE-2	301020WE-2
301017GE-1	301019GE-1	301018GE-1	301020GE-1
301017GE-2	301019GE-2	301018GE-2	301020GE-2
301017BL-1	301019BL-1	301018BL-1	301020BL-1
301017BL-2	301019BL-2	301018BL-2	301020BL-2
301017GR-1	301019GR-1	301018GR-1	301020GR-1
301017GR-2	301019GR-2	301018GR-2	301020GR-2
301017RO-1	301019RO-1	301018RO-1	301020RO-1
301017RO-2	301019RO-2	301018RO-2	301020RO-2

CellBox cell culture; freezing- and storageboxes for 15ml and 50ml falcons, long version

Same specification as described before, but in long form and double capacity



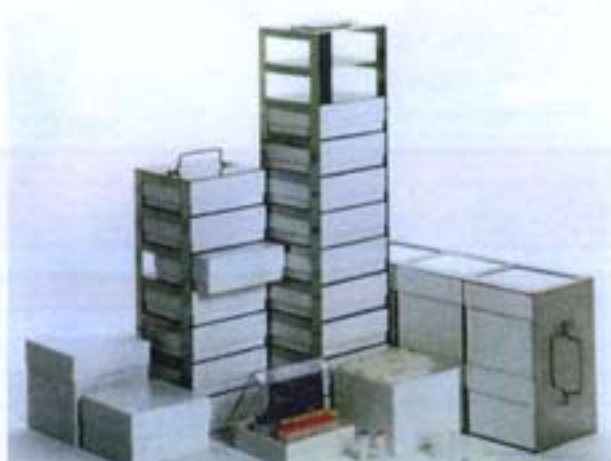
15ml	15ml	50ml	50ml
CellBox-Mini „long“	CellBox-Maxi „long“	CellBox-Mini „long“	CellBox-Maxi „long“
5 x 10 Places, 122x240x128mm	6 x 12 Places, 148x291x128mm	3 x 6 Places, 122x240x128mm	4 x 8 Places, 148x291x128mm

Cat. #	Cat. #	Cat. #	Cat. #
301140WE-1	301142WE-1	301141WE-1	301143WE-1
301140WE-2	301142WE-2	301141WE-2	301143WE-2
301140GE-1	301142GE-1	301141GE-1	301143GE-1
301140GE-2	301142GE-2	301141GE-2	301143GE-2
301140BL-1	301142BL-1	301141BL-1	301143BL-1
301140BL-2	301142BL-2	301141BL-2	301143BL-2
301140GR-1	301142GR-1	301141GR-1	301143GR-1
301140GR-2	301142GR-2	301141GR-2	301143GR-2
301140RO-1	301142RO-1	301141RO-1	301143RO-1
301140RO-2	301142RO-2	301141RO-2	301143RO-2

Cardboxes

Cardboxes for storage of samples, 136 x 136 mm surface area, 32/50/75/100/130mm height, material made of deep temperature waterproof cardbox, with special water resistant plastic cover. The boxes are available in different heights and can be used with the listed dividers for tubes of 8–21mm Ø.

Cat. #	Description	Size
SB-32	Box	32mm
SB-50	Box	50mm
SB-75	Box	75mm
SB-100	Box	100mm
SB-130	Box	130mm
		Divert / Tube Ø
SB-R-4	Divider	4 x 4 / 31mm
SB-R-5	Divider	5 x 5 / 21mm
SB-R-6	Divider	6 x 6 / 17mm
SB-R-7	Divider	7 x 7 / 16mm
SB-R-8	Divider	8 x 8 / 14mm
SB-R-9	Divider	9 x 9 / 13mm
SB-R-10	Divider	10 x 10 / 12mm
SB-R-12	Divider	12 x 12 / 10mm
SB-R-13	Divider	13 x 13 / 9mm
SB-R-14	Divider	14 x 14 / 8mm



Further boxes in other sizes, e.g. 133 x 133mm base are available on request.

Cryotubes, sterile, polypropylen, internal thread with silicon seal

Designed for storing of biological material, human or animal cells, at a temperature of -196°C . A silicon seal between the cap and the tubes ensures a positive leakproof seal at all temperatures. A 1-1/4 turn of the cap is sufficient to seal the vial. Seal and tubes are both manufactured from polypropylene having the same coefficient of expansion, which ensures an equally secure seal both at room temperature and at low cryogenic temperatures. Tubes have a white marking area, can be colour coded with cap inserts and are compatible with most storage systems. Sterilized by gamma radiation and packed in resealable safety-lock bags of 100.

Cat. #	Volume	Form	Dimensions in mm
CV11-1	1,2ml	free standing	12,5 x 43
CV11-2	2,0ml	free standing	12,5 x 49
CV11-3	2,0ml	free standing	12,5 x 48
CV11-4	4,0ml	free standing	12,5 x 72
CV11-4A	4,0ml	free standing	12,5 x 72
CV11-5	5,0ml	free standing	12,5 x 92



Cryotubes, sterile, polypropylen, external thread with silicon seal

The long form of the caps guarantees a simple one hand handling. The standard features of the high security tubes allow storage as low as -196 degrees. The tubes are delivered sterile in bags of 100.

Cat. #	Volume	Form	Dim. in mm
CV10-1A	1,2ml	Freistehend	12,5 x 43
CV10-2A	2,0ml	Freistehend	12,5 x 49
CV10-3A	3,0ml	Freistehend	12,5 x 72
CV10-4A	4,0ml	Freistehend	12,5 x 78
CV10-5A	5,0ml	Freistehend	12,5 x 92
CV10-10A	10,0ml	Freistehend	17,0 x 84

Value Line Cryotubes, sterile, polypropylen, external thread, free standing

Cryotubes with safety lid made from high quality polypropylene. Silicon free, no risk for contaminations. Tight sealing screw cap with Safe-Sealing Lip. Simple handling by star-bottom. DNase-, RNase-, endotoxin- und cadmium free.

Cat. #	Volume	Units
CV-VL-1	1,2ml	10 x 100
CV-VL-2	2,0ml	10 x 100
CV-VL-4	4,0ml	5 x 100
CV-VL-5	5,0ml	5 x 100



Colored Cap inserts for CV-VL Linie

Colored Cap Inserts fitting into the lids of the cryotubes for easy identification. Delivered in 5x100 pc.

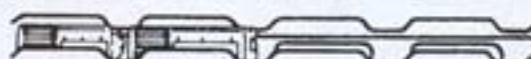
Cat. #	Color
CV-VL-W	white
CV-VL-G	yellow
CV-VL-B	blue
CV-VL-GR	green
CV-VL-R	red
CV-VL-V	violet
CV-VL-GA	grey
CV-VL-O	orange
CV-VL-P	pink



Storage canes

Storage canes made from aluminum, capacity up to 5 x 1,2 oder 2,0ml cryotubes; useful for storage in liquid nitrogen storage vessels.

Cat. #	Length	Pack size
CV-H	290mm	12 canes



Coloured cap inserts, pp for CV-10 and CV-11 line

Coloured cap inserts for sample coding

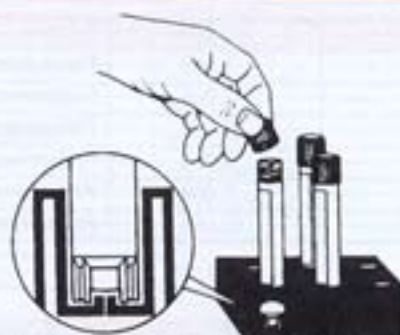
Kat. #	Color	Pack size
CVI-M	mixed	500



Cryotube Workstation

This autoclavable rack holds up to 50 cryotubes and incorporates an universal locking system which locks each vial securely in place. This also enables one hand cap removal.

Cat. #	Pack unit	Color
CV-WB	1	blue



LAB DEWAR: Systems for storage, transport and withdrawal of liquid nitrogen

Chart (used to be MVE) Cryo-Dewars as a practical and cost efficient solution for storing and withdrawing liquid nitrogen.

Cat. #, Model	LAB 4	LAB 5	LAB 10	LAB 20	LAB30	LAB 50
storagekap. in Liter liquid-N	4	5	10	21	32	50
Evaporation rate(Liter/day)	0,19	0,15	0,18	0,18	0,22	0,49
holdingtime in days	18	33,3	55,6	116,7	128	111
dimensions						
neck opening in mm	35,5	56	56	51	64	64
working height in mm	198	266	343	348	387	559
total height in mm	426	462	546	627	611	779
outer dimensions in mm	185	222	260	368	432	432
inner dimensions in mm	139	165	210	289	356	356
weight empty / filling weight in kg	2,7 / 6	4 / 8	6 / 14	9 / 26	12 / 38	15 / 56

A Easy maintenance lid design

B High strength neck tube reduces liquid nitrogen loss

C Advanced Chemical Vacuum Retention System- designed for superior vacuum, performance over the life of the product. 5 years vacuum warranty

D Superior strength, light aluminium construction

E Isolation - MVE's advanced isolation system provides maximum thermal performance

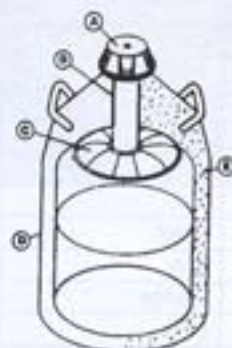
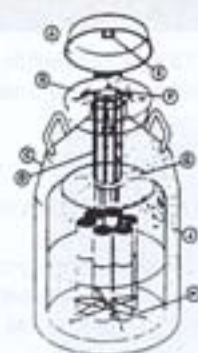


Chart (former MVE) Aluminum storage container, SC and XC series -192°C liquid nitrogen- deep temperature storage container

This series is for users who only need small capacities for long time storage and during that they require small usage of liquid nitrogen. Because the request for the storage of biological samples could vary significantly, there are containers with different capacities and holding times available within these series.

The containers of the aluminum series are light and resistant and for years it has been a leading product because of its innovative design as well as its high achievement and quality. All containers are being supplied including 6 canisters for the collection of palletes e.g. holders for cryotubes. Individuelle Canisters are available depending on the model. All models have 5 years of vacuum-warranty.



Cat. #, Modell	SC 3/3	SC 11/7	SC 16/11	SC20/20	SC36/32	XC 22/5	XC 34/18	XC 47/11-6
Nominal storage capacity								
0,5ml Paillettes (10/holders)	-	540	-	540	540	2.400	2.100	4.500
0,5ml Pail. (quantity/level)	732	732	1098	780	780	3.666	3.000	6.216
Quantity 1,2 & 2,0ml tubes	-	150	-	150	150	810	630	1.320
Capacity liquid-N (Liters)	3,6	11,0	16,4	20,5	36,5	22,4	34,8	47,4
Evaporation.-rate (l/day)	0,12	0,15	0,14	0,09	0,10	0,35	0,18	0,39
Working time in days	19	46	74	126	224	40	123	76
Dimensions								
Neck opening in mm	51	51	51	51	51	97	89	127
Height in mm	406	549	444	652	657	559	675	673
Outer diameter mm	222	260	438	368	464	368	464	508
Canister height in mm	127	279	127	279	279	279	279	279
Canister diameter mm	38	38	38	38	38	79	71	102
Weight empty /filling weight in kg	3,6 / 6,5	7,7 / 16,6	6,4 / 19,6	11,8 / 28,3	15,4 / 42,4	11,8 / 30	15,4 / 43,5	16,4 / 54,6

Autoradiographie

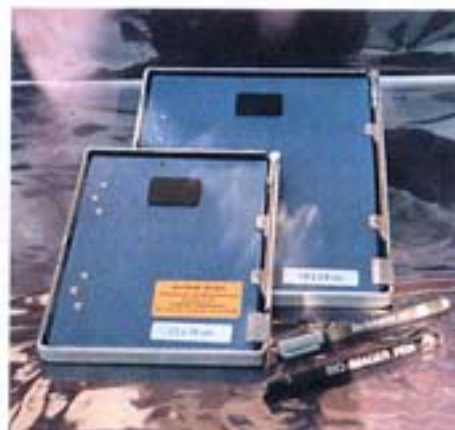
X-Ray cassettes

Kisker X-ray cassettes have a simple, but absolutely safe locking system and are high quality light tight instruments for the production of autoradiographs in molecular biology. For exposure at deep temperature up to -70°C we offer extra riveted cassettes, which guarantee absolute stability.

Kisker X-ray cassettes feature:

- extremely low radiation absorption
- highest quality through exact film/screen contact
- long lasting antistatic
- extremely long shelf life through plastic covered aluminium
- offered in standard and and with additional guaranteed stability up to -70°C
- also we manufacture special custom sizes on request. Please ask for quotation

Size in cm	Cat. # standard	Cat. # riveted
9 x 12	120001	-
13 x 18	120002	ZV0002
15 x 30	120003	ZV0003
15 x 40	120004	ZV0004
18 x 24	120005	ZV0005
18 x 43	120006	ZV0006
20 x 25	-	ZV0025
20 x 40	120007	ZV0007
20 x 60	120008	ZV0008
20 x 80	120009	ZV0009
20 x 96	120010	ZV0010
24 x 30	120012	ZV0012
30 x 40	120014	ZV0014
30 x 60	120015	ZV0015
30 x 80	120016	ZV0016
35 x 35	120019	ZV0019
35 x 43	120020	ZV0020
40 x 40	120022	ZV0022



Intensifying Screens

- **Type Universal – Sensitivity-100**, Calcium Tungstate, blue emitting, no static loading, low intensification, very good resolution
- **Type Extrarapid – Sensitivity-200**, Calcium wolframmat, blaue ermittelnd, high intensification, very good resolution, free selection of standard films, replacing the formerly available „Cronex lightning plus“, our most popular CaW04 screen

All intensifying screens are sold as pairs, prices are per pair!

Size	Cat. # Universal	Cat. # Extrarapid
13 x 18	ET002	ZVET002
18 x 24	ET005	ZVET005
18 x 43	ET006	ZVET006
20 x 40	ET007	ZVET007
20 x 60	ET008	ZVET008
20 x 80	ET009	ZVET009
24 x 30	ET012	ZVET012
30 x 40	ET014	ZVET014
35 x 35	ET015	ZVET015
35 x 43	ET020	ZVET020
40 x 40	ET022	ZVET022



Film hangers

Our film hangers are made from stainless, polished steel and are available in useful sizes. The patented seals in the corners are constructed to avoid damaging of the film in any way, when placing into the frame, while the film is fixed tightly and dries up to the corner completely. All film hangers are supplied with a 46cm long holder bar.

Cat. #	Size
FR1318	13 x 18cm
FR1530	15 x 30cm
FR1540	15 x 40cm
FR1824	18 x 24cm
FR1843	18 x 43cm
FR2025	20 x 25cm
FR2040	20 x 40cm
FR3040	30 x 40cm
FR3535	35 x 35cm
FR3543	35 x 43cm
FR4040	40 x 40cm



Fuji X-ray films RX

Fuji X-ray films for autoradiography are of highest quality and useful for all types of experiments. Proteines and DNAs may be marked with all types of radioisotopes. The Fuji RX film is an X-ray film which is covered on both sides with high contrast for all autoradiographical experiments. It is of high sensitivity to exposure with all UV/blue emitting Calcium-Wolfram- or rare earth intensifying screens. The films are supplied in packs of 100 sheets.

Cat. #	Format in cm
RX1318	13 x 18
RX1824	18 x 24
RX2430	24 x 30
RX2040	20 x 40
RX3040	30 x 40
RX3535	35 x 35
RX3543	35 x 43



X-Ray viewing boxes

Cat. #	Material	Format	Power
A005	Metal	24 x 30	4 x 8 Watt
A007	Metal	35 x 43	2 x 15 Watt
A008	Metal	70 x 43	4 x 15 Watt
A009	Metal	105 x 43	6 x 15 Watt



X-Ray film developer

A practical and robust developer made of PVC, offering an economical alternative to expensive routine units. It is suitable for the development of autoradiography in the research sector and is available in two formats, up to 24 x 30 cm and 35 x 43 cm.

Cat. #	Description / Parts included
TK2430	For 24x30cm: 2 x 7 L tanks with Deckel 1 x 8,5 L Tank 1 set-on-tray
A010	For 24x30cm: 7 L tank with lid
TK3543	For 35x34cm: 2 x 20 L tanks with lid 1 x 30 L tank w.thout lid 1 tub with drain
A011	hose connection set for TK3543
A012	sub frame for 3 tanks
A013	tank 20 Liter w.out lid
A017	tank 30 Liter w.out lid
A014	stirring rod, PVC, 60cm long
A016	tank thermometer, steel 10-40°C



Power supplies

Our power supplies are developed and produced using highest quality components and materials, according to the worldwide standards and safety regulations. They are equipped with many user-friendly design features which allow quick and simple operation. EPS-305 und EPS 503 are equipped with a Gelsaver, which avoids, diffusion of the bands into the gel after the end of the run.

EPS-304
MPII



EPS-305



EPS-608



EPS-505



EPS-3002



EPS-9009 TX



Power supplies characteristics and applications

Cat.# >:	EPS304 MPII	EPS-305	EPS-503	EPS-608	EPS-1006	EPS-1006P	EPS-202	EPS-3002	EPS-9009TX
Technical Data:									
Voltage	300	300	500	600	1000	1000	200	3000	3000
Amperage mA	400	500	300	800	600	600	1998	300	300
Wattage	120	150	150	300	300	300	300	300	300
constant V und mA	✓	✓	✓	✓	✓	✓	✓	✓	x
constant V und W								✓	✓
Timer		✓	✓	✓	✓	✓	✓		✓
V/H-Integrator									✓
Programmable						✓			✓
Rotatory button setting								✓	✓
Foil sensor	✓	✓	✓	✓	✓	✓	✓		✓
Applications									
EPS-3002									
DNA/RNA Agarosegels	✓	✓	✓	✓	o	o	o	o	o
RFLP u. DNA-Fragmente	✓	✓	✓	✓	o	o	o	o	o
PCR-Screening	✓	✓	✓	✓	o	o	o	o	o
DNA-Sequencing									
I E F								✓	✓
Protein-Elektrophoresis	o	✓	✓	✓	✓	✓			✓
Preparative Gels, SDS	o	✓	✓	✓	✓	✓		o	o
Semi-Dry Blotting	o	✓	✓	o	o	o	✓	o	o
Western Blotting		✓		✓	o	o	✓		

✓ = recommended application, o = optional application

Horizontal Gel Tanks

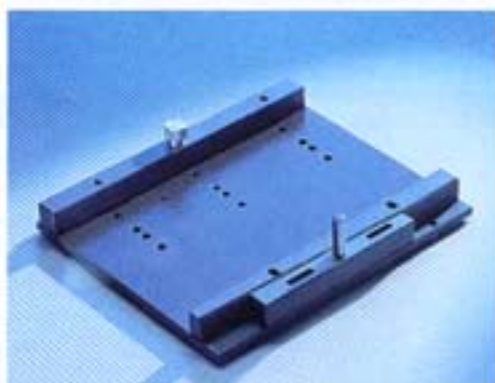
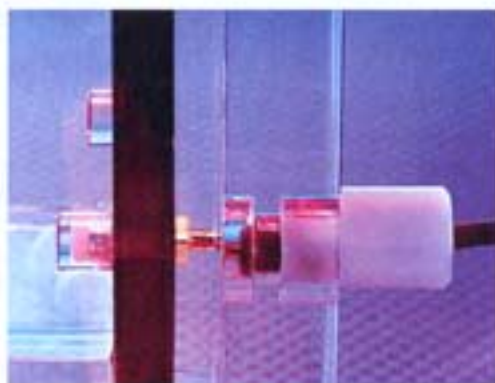
Our Horizontal-Electrophoresis tanks are worldwide established submarine electrophoresis tanks. They are featuring robustness and high quality. Gel tanks, lids and trays are made of acrylic, resistant to cracking by filling with hot agarose. Rubber feet guarantee a safe stand.

A big range of high quality combs guarantees excellent results and reproducibility, platin electrodes and stable connections guarantee a reliable electrical field during the run. Corrosion free connections, electrode leads and leading the platin-electrodes over the full width of tank avoid effects as „Smiling“.

Gels of Minigel and Midigel can be casted userfriendly either in gel casting systems or directly in the tank by a 90° turn of the gel tray. Midigels can be casted in the casting system. No need for casting tapes any more. All gel trays have several slots for the combs, to run shorter gels with higher sample quantity. The trays are UV-transparent, therefore the gels can be photographed on the tray/transilluminator without the risk of damaging the gels. Minigel „View“ with UV-transparent bottom is very useful for isolation of DNA-fragmentes from „Low-melt-Agaroses“.

The whole tank can be placed on a transilluminator during the run, to view the progress of the separation for „Low-melt-Agarosen“.

The safety concept protects the user. A contact of any parts/buffer under voltage is not possible with exception of the microgel tank, which works in the harmless low voltage area under 40 Volt.



Microgel with Power supply: Gel size 5 x 6 cm (W x L)

A small chamber for fast separation of nucleic acids and DNA fragments in the agarose gel. This chamber is being delivered with a low tension adaptor and it is especially useful for practice.

- buffer volume 150ml
- max number of samples 10
- UV-transparent bottom
- runs 4,3cm
- outer dimensions of the chamber : 9 x 11 x 2,2cm (BxLxH)
- Supply: Microgel-Chamber with platin electrodes, UV-tray, adaptor, 1 comb 2,0mm – 5 Teeth



Cat. #	Description	Sample volume
EHO-7	Microgel with power supply	in 4mm Dept / Bag
EHO-7-5	Comb 2,0 – 5 Teeth	24µl
EHO-7-10	Comb 2,0 – 10 Teeth	10µl

Gel casting systems

Gel casting systems are used for the preparation of several gels. UV-transparent gel trays fit exactly into the gel casting stands, which enables the user to cast gels without taping.

The gel casting stand E-VG is made of aluminum and causes fast heat diversion of hot agarose. This casting systems can be used for Mini- and Midigels.

Cat. #	Description	Fitting to
E-VG	Variable gel casting system	Mini- and. Midigele
EHO-1-GS	Casting system	3 Minigele
EHO-2-GS	Casting system	2 Midigele
EHO-3-GS	Casting system	2 Midigele B
EHO-4-GS	Casting system	1 Midigel MB



Minigel: gel size 7 x 8,3 cm (W x L)

A small tank for fast separation of nucleic acids and DNA fragments in agarose gels.

- gel volume 30ml (0,5cm gel thickness)
- maximum sample quantity 24
- separation length with one comb: 7cm, two combs: 3,5cm
- gel casting directly in the tank or in the gel casting system
- UV-transparent gel tray 7 x 8,3cm with seals
- unit dimensions : 15,5 x 18 x 8,5cm (W x L x H)
- complete unit includes: Minigel-Tank with platin electrodes, UV-tray with seals, 2 combs of choice, levelling bubble, rubber feet
- recommended adaptors:
EPS-304 300V/400mA with Timer and Gelsaver
EPS-305 300V/500mA with Timer and Gelsaver

Cat. #	Description	Sample volume
EHO-1	Minigel complete system	in 4mm T.-depth
EHO-1-6	comb 1,0 – 6 Teeth	37µl
EHO-1-8	comb 1,0 – 8 Teeth	26µl
EHO-1-10	comb 1,0 – 10 Teeth	19µl
EHO-1-12	comb 1,0 – 12 Teeth	15µl
EHO-15-6	comb 1,5 – 6 Teeth	55µl
EHO-15-8	comb 1,5 – 8 Teeth	39µl
EHO-15-10	comb 1,5 – 10 Teeth	29µl
EHO-15-12	comb 1,5 – 12 Teeth	22µl
EHO-1-UVT	UV-transparent tray 7 x 8,3cm	
EHO-NP	levelling platform	
EHO-L	levelling bubble	



Midigel: gel size 12 x 14 cm (W x L)

Tank for analytic and preparative experiments, PCR-screening and RFLP.

- buffer volume 800 ml
- gel volume 85ml (0,5 cm gel thickness)
- maximum sample quantity 48
- gel casting directly in the tank or in gel casting system
- UV-transparent gel tray 14 x 12 cm with seals
- unit dimension: 21,5 x 26 x 9 cm (W x L x H)
- Complete unit includes: Midigel-Tank with platin electrodes, UV-tray with seals, two combs of choice, levelling bubble, rubber feet

Cat. #	Description	Sample volume
EHO-2	Midigel complete System	in 4mm T.-depth
EHO-2-2	comb 1,0 – 2 Teeth	222µl
EHO-2-6	Comb 1,0 – 6 Teeth	70µl
EHO-2-8	Comb 1,0 – 8 Teeth	50µl
EHO-2-10	Comb 1,0 – 10 Teeth	39µl
EHO-2-12	Comb 1,0 – 12 Teeth	29µl
EHO-2-16	Comb 1,0 – 16 Teeth	22µl
EHO-2-20	Comb 1,0 – 20 Teeth	16µl
EHO-2-24	Comb 1,0 – 24 Teeth	12µl
EHO-25-2	Comb 1,5 – 2 Teeth	333µl
EHO-25-6	Comb 1,5 – 6 Teeth	105µl
EHO-25-8	Comb 1,5 – 8 Teeth	76µl
EHO-25-10	Comb 1,5 – 10 Teeth	58µl
EHO-25-12	Comb 1,5 – 12 Teeth	44µl
EHO-25-16	Comb 1,5 – 16 Teeth	33µl
EHO-25-20	Comb 1,5 – 20 Teeth	24µl
EHO-25-24	Comb 1,5 – 24 Teeth	18µl
EHO-2-UVT	UV-transparenter tray 12 x 14 cm	



Midigel B: gel size 14,5 x 10,2 cm (W x L)

Wide Tank for separation of DNA/RNA-fragments, PCR-screening and RFLP

- buffer volume 900ml
- gel volume 70ml (0,5cm gel thickness)
- maximum sample quantity 80
- separation length with one Comb: 9cm, two combs: 4,5cm
- gel casting in gel casting system
- UV-transparent tray with seals
- unit dimensions: 23,5 x 20,5 x 8,5 cm (W x L x H)
- Complete unit includes: Midigel-B-Tank with platin electrodes, UV-tray with seals, 2 combs of choice, levelling bubble, rubber feet.
- recommended adaptors:
 - EPS-304 300V/400mA with Timer and Gelsaver
 - EPS-305 300V/500mA with Timer and Gelsaver
 - EPS-503 500V/300mA with Timer and Gelsaver

Cat. #	Description	Sample volume
EHO-3	Midigel B complete system	in 4mm T.-depth
EHO-3-16	comb 1,0-16 Teeth	28µl
EHO-3-30	comb 1,0-30 Teeth	12µl
EHO-3-40	comb 1,0-40 Teeth	7µl
EHO-35-16	comb 1,5-16 Teeth	42µl
EHO-35-30	comb 1,5-30 Teeth	18µl
EHO-35-40	comb 1,5-40 Teeth	10µl
EHO-3-UVT	UV-transparent tray 14,5 x 10,2cm	
EHO-3-GS	gel casting system for two gel trays	
EHO-3-GS-D	2 silicon seals for gel trays	
EHO-NP	levelling platform	
EHO-L	levelling bubble	



Midigel MB: gel size 23 x 16 cm (W x L)

Maxi-Wide Tank for separation of DNA/RNA-fragments, PCR-screening and RFLP.

- buffer volume 1.100ml
- gel volume 180ml (0,5cm gel thickness)
- maximum sample quantity 200
- separation length with one comb: 15cm, two combs: 3,2cm
- gel casting directly in the gel casting system
- UV-transparent tray with seals
- unit dimensions: 34 x 28 x 8,5cm (W x L x H)
- Complete unit includes: Midigel-MB-Tank with platin electrodes, UV-tray with seals, 2 combs of choice, levelling bubble, rubber feet.
- recommended adaptors:
 - EPS-304 300V/400mA with Timer and Gelsaver
 - EPS-305 300V/500mA with Timer and Gelsaver
 - EPS-503 500V/300mA with Timer and Gelsaver

Cat. #	Description	Sample volume
EHO-4	Midigel MB	in 4mm T.-depth
EHO-4-25	comb 1,0-25 Teeth	28µl
EHO-4-50	comb 1,0-50 Teeth	12µl
EHO-45-25	comb 1,5-25 Teeth	42µl
EHO-45-50	comb 1,5-50 Teeth	18µl
EHO-4-UVT	UV-transparent tray 23 x 16cm	
EHO-4-GS	gel casting system for a gel trays	
EHO-4-GS-D	2 silicon seals for gel trays	
EHO-NP	levelling platform	
EHO-L	levelling bubble	



Maxigel: gel size 20 x 25cm (W x L)

Tank for DNA/RNA analysis and fast PCR-screening of samples.

- buffer volume 3.000ml
- gel volume 250ml (0,5cm gel thickness)
- maximum sample quantity 200
- UV-transparent tray
- separation length with one Comb: 23cm, several combs: 1,5–17cm
- unit dimensions: 29,5 x 41,5 x 10cm (W x L x H)

- Complete unit includes: Maxigel-Tank with platin electrodes,
UV-tray with casting gates,
3 combs of choice, levelling bubble, rubber feet
- recommended adaptors:
EPS-305 300V/500mA, EPS-503 500V/300mA, EPS-608 600V/800mA

Cat. #	Description	Sample volume
EHO-5	Maxigel, complete system	in 4mm T.-depth
EHO-5-2	comb 1,0– 2 Teeth	386µl
EHO-5-24	comb 1,0–24 Teeth	26µl
EHO-5-42	comb 1,0–42 Teeth	12µl
EHO-5-50	comb 1,0–50 Teeth	9µl
EHO-55-2	comb 1,5– 2 Teeth	578µl
EHO-55-24	comb 1,5–24 Teeth	39µl
EHO-55-42	comb 1,5–42 Teeth	18µl
EHO-55-50	comb 1,5–50 Teeth	13µl
EHO-5-UVT	UV-transparent tray 20 x 25 m	
EHO-5-S	casting gate	
EHO-NP	levelling platform	
EHO-L	levelling bubble	



Minigel View: gel size 10,2 x 8,3 cm (W x L)

Tank with UV-light transparent bottom, very useful for isolation of DNA-fragments from low-melting-agaroses. This tank can be placed on a transilluminator during the run, to view the progress of the separation.

The tank is produced from one block, no leakage evermore.

- buffer volume 140ml
- gel volume 40ml (0,5cm gel thickness)
- maximum sample quantity 32
- separation length with one comb: 7,5cm, two combs: 3,5cm
- unit dimensions: 16 x 15 x 5,2cm (W x L x H)
- Complete unit includes: Minigel-Tank with platin electrodes,
2 casting gates, 2 combs of choice,
levelling bubble, rubber feet.
- recommended adaptors:
EPS-305 300V/500mA, EPS-503 500V/300mA, EPS-608 600V/800mA

Cat. #	Description	Sample volume
EHO-6	Minigel „View“, complete system	in 4mm T.-depth
EHO-6-4	comb 1,0– 4 Teeth	89µl
EHO-6-6	comb 1,0– 6 Teeth	56µl
EHO-6-8	comb 1,0– 8 Teeth	40µl
EHO-6-12	comb 1,0–12 Teeth	24µl
EHO-6-13	comb 1,0–13 Teeth	22µl
EHO-6-16	comb 1,0–16 Teeth	16µl
EHO-6-S	gel casting gastes	
EHO-NP	levelling platform	
EHO-L	levelling bubble	



UV-Transilluminators

- homogenous lightning by 6, 8 or 12 tubes (depending on model)
- long tube shelflife through integrated cooling fan
- electronic start
- models with infinitely variable, chosable intensity of the tubes (10–100%)
- UV-protection shield (optional) usable angel 0–90°
- high quality construction in compact design
- the listed illuminators are useful for following dyes:

Version 254nm	Hoechst Blue, Radiant Red, Chemiefluoreszenz
Version 312nm	Ethidiumbromid, SYBR Orange, Fluorescein
Version 365nm	SYBR Green, GFP, CHO, Hoechst 33258
Version blue light	Gel Star, SYBR Green, SYBR Gold, AttoPhos
Version white light	Coomassie Blue, Silver Stain, Film Imaging

Cat#	Description
UVT-UVS	UV-protection shield
UVB-mB	UV-glasses with ear piece
UVB-mG	UV-glasses with rubber band
UV-VG	UV-face shield



Cat#	Wavelength nm	Number tubes x Watt	Filter size cm	Intensity control
UVT-20S	254	8 x 8	20x20	no
UVT-20M	312	8 x 8	20x20	no
UVT-20L	365	8 x 8	20x20	no
UVT-30S	254	12 x 8	23x30	no
UVT-30M	312	12 x 8	23x30	no
UVT-30L	365	12 x 8	23x30	no
UVT-40S	254	6 x 15	20x40	no
UVT-40M	312	6 x 15	20x40	no
UVT-40L	365	6 x 15	20x40	no
UVT-20S-V	254	8 x 8	20x20	10–100%
UVT-20M-V	312	8 x 8	20x20	10–100%
UVT-20L-V	365	8 x 8	20x20	10–100%
UVT-30S-V	254	12 x 8	23x30	10–100%
UVT-30M-V	312	12 x 8	23x30	10–100%
UVT-30L-V	365	12 x 8	23x30	10–100%
UVT-40S-V	254	6 x 15	20x40	10–100%
UVT-40M-V	312	6 x 15	20x40	10–100%
UVT-40L-V	365	6 x 15	20x40	10–100%
UVT-20S/M	254/312	4 x 8 / 4 x 8	20x20	no
UVT-20S/L	254/365	4 x 8 / 4 x 8	20x20	no
UVT-20M/L	312/365	4 x 8 / 4 x 8	20x20	no
UVT-30S/M	254/312	6 x 8 / 6 x 8	23x30	no
UVT-30S/L	254/365	6 x 8 / 6 x 8	23x30	no
UVT-30M/L	312/365	6 x 8 / 6 x 8	23x30	no
UVT-40S/M	254/312	3x15 / 3 x15	20x40	no
UVT-40S/L	254/365	3x15 / 3 x15	20x40	no
UVT-40M/L	312/365	3x15 / 3 x15	20x40	no
WL-20	white light	8 x 8	20x20	no
WL-30	white light	12 x 8	23x30	no
BLT-20	blue light	8 x 8	20x20	no
BLT-30	blue light	12 x 8	23x30	no

DNA-Workstation and Hybridisation

Hybridisation oven

Hybridisation ovens are fast becoming the preferred method of hybridisation techniques in today's laboratory. The ovens have virtually replaced plastic bags and shaking water baths because of the added safety and convenience they provide. Incubations take place inside the ovens under constant rotation, thereby providing even distribution of probe solution over the membrane. Our hybridisation oven offers high performance with precise temperature control. The narrow frontal profile provides the additional advantage of conserving precious benchtop space.

The hybridisation oven offers exceptionally high performance. You don't have to wait longer than twenty to forty minutes to reach target temperatures. The hybridisation oven heats from ambient to 65°C in only 7 minutes. Our unique fan-assisted airflow system circulates air evenly and continuously, delivering excellent temperature uniformity throughout the oven chamber. The digital set/digital read P.I.D. microprocessor

Rotating speed	5 rpm
Temperature range	5°C above room temperature up to 90°C
Heating power	400 Watt
Heating speed	65°C in 7 Minutes
Temperature precision	+/- 0,2°C
Temperature display	3-point LED-display
Timer	9 h, 59 min. or continuously
OTP	automatic at 3°C over set point
Dimensions: inside	350 x 195 x 200mm W x H x T
outside	425 x 380 x 250mm W x H x T
Weight	15 kg



Cat. #	Description
L017	Hybridisation oven w.out rotisserie
L017-F3	rotisserie f. 3 tubes 300 x 70mm
L017-F6	rotisserie f. 6 tubes 300 x 50mm
L017-F6/12	roti. f. 6 tubes 300x35 or 12 150x35mm
L017-SP	rocking platform

Cat. #	Description
L017-1535	tube 150 x 35mm
L017-3035	tube 300 x 35mm
L017-3050	tube 300 x 50mm
L017-3070	tube 300 x 70mm

DNA-Workstation I

The DNA-Workstation is an UV sterilisation cabinet to decontaminate reagents and equipment prior to carrying out PCR reactions. The powerful 15 watt UV light (254nm) of the DNA-Workstation denatures nucleic acids in 5–30 minutes making them unsuitable for amplification and therefore eliminating any possible cross contamination. The DNA-Workstations are equipped with a white lamp for illumination. The 10mm acrylic walls also act as an efficient shield of beta-radioactive emissions. The dimensions of the DNA-Workstation are 69 x 51 x 57cm w x d x h, the weight is 25 kg. The DNA-Workstation is placed on an easy to clean stainless steel tray.

Available models:

- L020: lower part of acrylic front to turn up
2x UV 254nm 15 Watt, 1 x white light
- L020-C: lower part of acrylic front to turn up
1x UV 254nm 15 Watt, 1 x white light, 1 x UV/Air-Cleaner 254nm
- L020-S: two side openings from the front side
2x UV 254nm 15 Watt, 1 x white light
- L020-G: workstation with UV-protected glass sides,
resistant to UV-cracking and can be cleaned with the medium of choice
1x UV 254nm 15 Watt, 1 x white light, 1 x UV/Air-Cleaner 254nm

Cat. #	Description	Power
L020	DNA-Workstation	220 Volt/50Hz
L020-C	Workstation with UV/Air Cleaner	220 Volt/50Hz
L020-S	Workstation with 2 side openings	220 Volt/50Hz
L020-GC	Workstation with glass & UV/Aircleaner	220 Volt/50Hz



UV-Cleaner, the new combination of Laminar Flow and UV-light for Clean Rooms

This new products provides DNA safe laboratories without direct UV-light. The air is constantly flowing through the instrument, which is equipped with a fan, an UV-lamp and a dust filter. Inside the box the density of the UV-light is increased 1000 fold, sufficient to inactivate DNA complete. Also microbiological contaminations are reduced strongly.

The UV-Laminar-Flow is able to clean 25 m³ of air/ hour to provide DNA free laboratory of 25 m³ within 3 hours.

Further advantages:

- no hepa filters to change – ozone free high density UV decontamination
- noise free, low energy consumption – long living UV-lamps (8.000 hr)
- the instrument is recommended for clean room laboratories as PCR, DNA-Analysis, Microbiology, Virology, Tissue Culture or other rooms, where a contamination free area is needed
- after 12 hours of air cleaning, the UV-Laminar Flow provides an estimated reduction of the colony forming unit to 80 – 100 CFU/m³ air

L046-M Weight: 3,7kg Power 220/240 Volt, 50/60Hz 30 Watt

Cat. #	Description	Capacity/hr
L046-M	UV-Cleaner	25m ³



DNA-Workstation II

This DNA-Workstation avoids cross-contamination by suction of the air and ducting it through an activated charcoal filter. All particles are captured and will not reach normal lab air.

The DNA-Workstation is equipped with an 4W- 254nm UV-lamp and filtercassett. The hour counter shows the overall working time. The activated charcoal filter should be replaced every 1000 working hours. The work surface is made from stainless steel and easy to clean. The airflow is adjustable from 0–100%. The DNA-Workstation is available in 3 versions. The perspex cover can be moved 100mm backwards (except USA version).

Specifications: electr. power: 220Volt/50Hz/80Watt

dimension working space: 470 x 300mm (W x D)

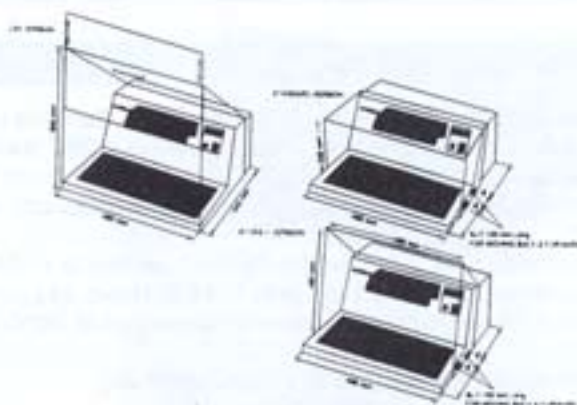
suction space: 410 x 240mm (W x D)

Exterior Standard: 485 x 540 x 250mm (W x D x H)

Sydney-Version: 485 x 540 x 465mm (W x D x H)

USA-Version : 485 x 540 x 600mm (W x D x H)

Cat. #	Description
L016	DNA-Workstation (Standard)
L016-SY	DNA-Workstation (Sydney)
L016-US	DNA-Workstation (USA)
L016-AF	act. charcoal filter
L016-UV	UV-Lamp



Thermal Cycler from TECHNE

We are proud to offer the reliable and established Cycler equipment made by **TECHNE**. TECHGENE TC-312 has been designed for the individual; priced to be inexpensive to be treated as an ordinary piece of laboratory equipment, that everybody can own.; designed to process a small number of parallel samples rapidly in unprecedented cycle times, allowing a typical 25 cycle programme to be completed in about one hour, enabling the operator to achieve more PCRs in a working day. The TECHGENE Thermal Cycler offers following advantages:

- a very small, fast and inexpensive cycler
- an amazing list of innovative features and user friendly software that can accomodate all the latest PCR protocols such as „Touchdown“, „RAPD“, and „Long“
- excellent performance –1,8°C cooling and 3,0°C heating per second in the 55°C to 90°C range
- temperature range from 4°C to 99°C
- heated lid for oil free PCR, heating temperature 100–115°C
- alert and cooling at program end
- two models available for 25 x 0,2ml microtubes and 20 x 0,5ml microcentrifuge tubes
- loading of 80 programs with 99 cyclers

Cat. #	Description
FTC3105D	TC-312 inclusive 20 x 0,5ml block
FTC3102D	TC-312 inclusive 25 x 0,2ml block
FTC31B05	20 x 0,5ml block
FTC31B02	25 x 0,2ml block



Dry Block Heat Bath I and II

This economical microprocessor controlled dry block heat bath can run either two tube-blocks or one microtiter block. The digital LCD readout monitors the temperature in REAL-TIME and displays the target temperature. The heating range goes from room-temperature to 130°C at a temperature stability of $\pm 0,1^{\circ}\text{C}$.

The interchangeable blocks for tubes are equipped with a safety tube cover which eliminates the pop open of tube caps during heating. The instrument is compact (21 x 25 x 8 cm, WxDxH) and needs only the space of a DIN A4 page. The weight is 2,7 kg without blocks.

Cat. #	Description	Form
L001-I	dry block heat bath	for two block
L001-III	dry block heat bath	for one block
L001-30K	30 x 0,5ml block	konisch
L001-24P	24 x 1,5/2,0ml block	parallel
L001-24K	24 x 1,5ml block	konisch
L001-48K	48 x 0,2ml block	konisch
L001-0815	8 x 15ml block	15ml tubes
L001-0550	5 x 50ml block	50ml tubes
L001-0000	undrilled block	



Blocks for microtitreplates only for dry block heat bath I (L001-I)

Cat. #	Description	Form
L001-96U	96 wells round	U-Form
L001-96F	96 wells	Flat bottom
L001-96V	96 wells	V-Form
L001-96T	96 x 0,2 Tubes	for Cycler

Dry Block Heat bath II

This small dry block heat bath is a very economical alternative to large-scale multi block heat baths. The heating range goes from ambient to $+100^{\circ}\text{C}$, the active and chosen target temperature can be read on the LCD-display. The lid of the dry block heat bath may be closed to protect the user from high temperature blocks and to increase temperature stability.

The aluminium block -1 has capacity for 21 x 0,5ml and 32 x 1,5ml tubes.

The aluminium block -2 has capacity for 50 x 0,2ml tubes, 21 x 0,5ml and 32 x 1,5ml tubes. It takes 25 minutes to reach the maximum temperature of 100°C , the temperature stability is $0,2^{\circ}\text{C}$.

Specifications: dimension 21 x 20 x 10cm, weight: 4kg
power: 220Volt/50Hz/400 Watt

Cat. #	Description	
L019/L019-1	dry block heat bath	incl block 53 places
L019/L019-2	dry block heat bath.	incl block 103 places



Mini Dry Block Heat and Cool bath -10 to $+100^{\circ}\text{C}$

In most molecularbiology laboratories is it necessary to control temperatures of the used enzymes and reagent-mixes. This compact and small dry block cool bath is a very economical alternative to ice buckets with the advantage to keep samples on a specific temperature. The instrument is working on the peltier principle with a temperature range from -10°C to $+100^{\circ}\text{C}$.

The temperature settings are made by touch pad and shown by a digital display. Two models are available: block for 20 x 0,5ml and 12 x 1,5ml tubes, total 32 places and block for 20 x 1,5ml tubes.

Specifications: dimensions 190 x 225 x 115mm, weight: 4,1kg
power: 220Volt/50Hz/400 Watt

Cat.#	Description	Blockversion
L022-N-32	dry block cool bath	20x0,5/12x1,5ml
L022-N-20	dry block cool bath	20x1,5ml



Thermo-Shaker

Thermo – Shaker is a space saving, compact alternative for shaking and heating of microtubes at one time

Specifications:

- Temperature, speed and time microprocessor controlled
- shaking speed: 250–1.400r.p.m, orbit 2mm
- heating range: 25°C to 100°C
- timer 1 minute to 96hr
- 2 exchangeable blocks
- weight: 3,5kg, dimensions 205x230x130mm, power extern:12 Volt/4 Ampere



Cat. #	Description	Connection
L056	Thermo-Shaker	extern 12 Volt/ 4 Ampere
L056-32	block for 20 x 0,5ml & 12 x 1,5ml	
L056-20	block for 20 x 1,5ml tubes	
L056-20-2.0	block for 20 x 2,0ml tubes	

Shaking-Incubator for Microtestplates or Microcentrifugetubes

The Shaking Incubator allows you to heat and shake your samples simultaneously. A microprocessor controlled temperature/time-modul guarantees an even temperature stability. The temperature transfer by air recirculation heats your sample fast and independently from long warm up times.

Chosen and real temperature are shown on the digital LCD-display, the clear acrylic lid allows a visual control. The unit is equipped with a security switch, which stops the shaking process when opening the lid.

- Specifications:** Specifications: temperature range: 4°C over ambient to 80°C
 temperature uniformity: +/- 0,3°C
 speed: 250–1.250r.p.m., amplitude: 3mm
 timer 59min, 0–9 Std.
 dimensions: 280 x 240 x 210mm, weight: 9,0kg



Cat. #	Description
L051	shaking-incubator
L051-1,5	Platform for 56 x 1,5/2,0ml tubes
L051-0,5	Adaptor for 60 x 0,5ml tubes
L051-0,2	Adaptor for 60 x 0,2ml tubes
L051-MTP	Platform for 4 microtiter palates

Microprocessor controlled Waterbath / magnetic stirred Waterbath

- Temperature accuracy of 1 to 2°C
 Stainless steel tank with 4 liter capacity.
 Heatingrange 30 to 100°C
 LED display
 Magnetic stirrer speed 300–1000r.p.m.
 Weight 4kg,
 Dimensions 340 x 170 x 170mm
 Dimension with magnetic stirrer 340x 170 x 200mm

Cat.#	Description	Electrical requirement
L042	Waterbath	220 Volt, 50Hz
L043	Wb/Magnetic stirrer	220 Volt, 50Hz

Micro-Centrifuge, now with second rotor for 2 strips of 8 PCR Tubes

This compact centrifuge is an ideal supplement for each laboratory, that must spin down small samples as DNA, RNA, Proteins etc. for preparing further investigations.

- speed 6.200 rpm (relative centrifuge force 2.000g), rotor for 6 x 1,5ml or 2 strips of 8 x 0,2ml tubes (optional)
- adaptors for 0,5ml Tubes
- improved latch lock and hinge of the transparent lid, less risk of damage
- improved safety, with separate turn on/off switch, autostopp when opening the lid
- ultra quiet motor, tested for 2.500 hours
- unit size around 13cm diameter, weight 830g

Cat. #	Description	Power requirements
MZ001-N	micro-Centrifuge	220 Volt, 50Hz
MZ001-A-0,5	adaptor for 0,5ml	6 Adaptor
MZ001-A-8 x 0,2	rotor for 8 x 0,2-strips	0,2ml tubes



Micro-Centrifuge, Vortex Mixer, „two in one“

This centrifuge is now presented in a new design as a very space saving combination of centrifuge and vortex mixer. The instrument eliminates long ways between centrifugation and sample mixing. The microcentrifuge tubes fit through the orifice of the lid for vortex mixing.

The constant centrifuge speed is 2.400r.p.m. at 700xG, the vortex speed is also 2.400r.p.m. The weight is 2 kg, dimensions are 130 x 170 x 100mm.

The centrifuge – vortex mixer is supplied with 2 rotor-discs for 12 x 0,5ml and 0,2ml and 12 x 1,5ml tubes.

Cat. #	Description	Power requirements
MZ002	Centrifuge / Vortexmix	220 Volt, 50Hz
MZ002-A-8x0,2	Rotor for 8-strips	0,2ml tubes



Multi-Fuge, 3500r.p.m.: centrifuge or vortex, both in combination

- centrifuge: 1.000 – 3.500rpm, 100- steps chosable
- vortex: soft – medium- hard
- combining, 99 minutes timer; 999 repetitions
- rotordiscs inclusive for 12x1,5ml & 12 x 0,5/ 12x 0,2ml

Cat. #	Description	Power requirements
MZ009	Multi-Fuge	220 Volt/59Hz
MZ009-A-8x0,2	Rotor for 8 strips	



EBA 20 small centrifuge for 8 x 15ml Tubes

The practical and handy EBA 20 is the ideal centrifuge for low sample quantities. It is supplied with an 8-place angle rotor and fitted with the E control panel.

The rotor can be used with following tubes:

- 8 x 15ml (17 x 100mm)
- 4 x 15ml, Falcons with screwcaps (17 x 120mm)
- 8 x 9–10ml blood collection tubes (16,5 x 92mm)
- 4 x 8ml blood collection tubes (16 x 125mm)
- 8 x 8,5–10ml blood collection tubes (16 x 100mm)

Technical specifications:

- lid locking and holding device
- display of real speed
- speed: 6.000r.p.m, to set in steps of 100, 3.421xg
- dimensions/weight: 215 x 231 x 292 (HxWxD), 4kg

Cat. #	Power requirements
MZ007	208–240V, 50/60Hz



„Smart Runner“ Microlitercentrifuge for molecular biology, powerful and low priced, 14.000r.p.m., 15.558 x g

This microlitercentrifuge is delivered complete with an angle rotor inclusive lid for 12 x 1,5/2,0ml tubes. Smart Runner is going quickly to the maximum speed and takes up small space on the laboratory desk.

The advantages:

- lid locking and holding device
- lid-open-button
- emergency lid lock release
- motor overheating protection
- imbalance switch-off
- settings of parameters by foil keyboard
- speed increments 100r.p.m.
- continuous run, short run
- timer 1 to 99 minutes
- dimensions 198 x 231 x 292mm (HxWxD), weight around 6,0kg

Cat. #	Rotor capacity
MZ010	Smart Runner incl.rotor
MZ010-2024	adaptor for 0,2ml PCR tubes
MZ010-2023	adaptor for 0,5ml tubes



„Cool Sprinter“ Microlitercentrifuge with or without refrigeration -10°C up to +40°C, 14.000 r.p.m., 18.626 x g

Cool Sprinter is one of the fastest in his quality. The max. speed is 14.000r.p.m, RCF is 18.626. With Fast Cool it cools in 10 to 15 minutes down to 4°C. Thermosensitive samples can be centrifuged carefully because of this reliable cooling. The smooth running and powerful motor with service free drive guarantees best separation results. Aerosol tight and autoclavable accessories are available for safe handling of infectious material.

Comfort:

- display of IS-situation during the run
- well readable digital display
- motor lid locking
- impulse key for short run
- lid open key, RCF-key
- speed increments 100 rpm
- running time max. 99 minutes

Safety:

- stop-display
- microprocessor controlled
- lid locking and emergency lid lock release
- motor-overheating protection
- imbalance switch-off

Dimensions (HxWxD): MZ011-UK: 260 x 275 x 347mm, weight 11,5kg
MZ011: 260 x 281 x 547mm, weight 28,0kg

Cooling: MZ011

- Temperature in 1°C-increments from -10 to +40°C
- Pre-cooling, stand-by-cooling
- Automatic stop at lid opening or end of time setting



Cat. #	Rotor capacity	RCF (g-Force)
MZ011-UK	Sprinter-Centrifuge	
MZ011	Cool-Sprinter-Centrifuge	
MZ011-2425	lid aerosol tight f. 2424/2430	
MZ011-2424	rotor for 24 x 1,5/2,0ml tubes	18.662
MZ011-2430	rotor for 30 x 0,5ml tubes	17.749
MZ011-2018	rotor for 4 x strips; 0,2ml PCR T.	12.490
MZ011-2040	lid f. rotor 2018	
MZ011-2024	adaptor for 0,5ml tubes	
MZ011-2023	adaptor for 0,2ml PCR tubes	



Microcentrifuge with or without refrigeration -20°C up to +40°C, 18.000r.p.m.

Small bench top centrifuge for molecular biology, virology and bacteriology. Tube volume 0,2ml up to 50ml and hematocrit capillaries. Brushless drive guarantees exceptionally smooth running and speed stability; metal housing, centrifugation chamber made of easy to clean stainless steel; safety lid with window for speed control; lid locking and holding device; automatic recognition of the rotor, autoclavable fixed angle and swinging rotors, three running programs can be stored; temperature set from -20°C up to +40°C; timer 1-99min., speed: angle rotor 18.000rpm at RCF of max. 31.867, swinging rotor 13.000rpm at RCF of max 18.516

Specifications: temperature range MZ005: -20°C to +40°C; timer 1-99 minutes
weight MZ005: 36kg, dimensions 178 x 333 x 620mm (H x W x D)
weight MZ005-UK: 16kg, dimensions 278 x 333 x 390mm (H x W x D)

Cat. #	Description	Capacity ml or mm	RCF
MZ005	centrifuge w. refrigeration up	50ml max.	
MZ005-UK	centrifuge w.out refrigeration	50ml max.	
MZ005-1154	swing out rotor 90°	24 x 0,5/1,5/2,0ml	18.516
MZ005-1157	angle rotor with lid	12 x 0,5/1,5/2,0ml	23.907
MZ005-1195	angle rotor, aerosol-tight	24 x 0,5/1,5/2,0ml	31.514
MZ005-1189	angle rotor, aerosol-tight	30 x 0,5/1,5/2,0ml	21.255
MZ005-1158	angle rotor, alu, 2 rows	48 x 1,5/2,0ml	21.255 ob.
MZ005-1160	angle rotor f. PCR-Strips	6 x 8x0,2ml	18.845
MZ005-1161	drum rotor with lid 6 fold	60 x 1,5ml	14.150
MZ005-1377	drum rack	10 x 1,5/2,0ml	14.150
MZ005-1378	drum rack	32 x 0,4ml Beckman	14.150
MZ005-1379	drum rack	21 x 0,8 Bd oder 21 x 0,5ml	14.150
MZ005-1020	swing out rotor only f. MZ005	8x10ml/17x70; 5ml/12x75	2.879
MZ005-1013	swing out rotor only f. MZ005	6x15ml/17x100; 10ml/17x70	2.879
MZ005-1015	swing out rotor only f. MZ005	12x15ml/17x100; 12x5ml/12x75	4.105
MZ005-1016	angle rotor only for MZ005	6x50ml/29x107; 3x50ml/Falcon	3.904
MZ005-1023	Hematocrit-Rotor w.lid	24 capillaries	21.382



Universal 32, without or with refrigeration -20°C up to +40°C, 18.000r.p.m.

This universal table centrifuge is useful for sedimentation of cells, bacteria, yeast, DNA/RNA and for proteinprecipitation. Universal 32 means perfectly smooth running at both high and low speeds, versatility, an enormous range of easily interchangeable accessories and high RCF (23.907 for microtubes, 9.418 for 85 ml tubes). Tubes having a volume of 0,2ml to 100ml, microtiterplates, haematocrit capillaries and ZYTO-accessories can be used at small lab-space. Extremely short up- and run down running times, impulse-button, RPM or RCF-setting in 10- steps as well as 3 running programmes make the centrifuge user friendly.

Specifications: Temperature range MZ012: -20°C to +40°C; Timer 1-99 minutes
weight MZ012: 46kg, dimensions 300 x 420 x 660mm (H x W x D)
weight MZ012-UK: 16kg, dimensions 300 x 420 x 490mm (H x W x D)

The complete accessories are available on request, please ask us for the possibilities for your tube if not listed so far.

Cat. #	Description	Capacity in ml	RCF
MZ012	Cooling centrifuge up to -20°C	100ml max.	
MZ012-UK	Centrifuge w.out cooling	100ml max.	
MZ012-1689	angle rotor 45°aerosol tight	only f. MZ012 30 x 0,5/1,5/2,0ml	21.255
MZ012-1612	angle rotor with lid	12 x 0,5/1,5/2,0ml	23.907
MZ012-1613	angle rotor 12-fold	12x15ml/17x100; 6x15ml/Falcon	4.105
MZ012-1622	swing out rotor / suspension	2-fach MTP	2.093
MZ012-1645	swing out rotor	only f. MZ012 4-fach MTP	1.896
MZ012-4345	suspension f. MZ012-1645	1 steel suspension	
MZ012-1617	swing out r. w. suspension	8 x 50ml Falcon, 45°	3.857
MZ012-1619	swing out r. w. suspension	6 x 50ml Falcon, 90°	2.701
MZ012-1462	adaptor f. - 1617/1619	for use of 15ml Falcons	
MZ012-1624	swing out r. w.out	4-fach	2.665
MZ012-1381	metal beaker f.-1624	1 x100ml	
MZ012-1650	hematocrit-Rotor w.lid	24 capillaries	
MZ012-1626	rotor with ZYTO beaker	6 fach	2.093



„Rotina 35“, with or without refrigeration -20°C up to +40°C, 15.000r.p.m., RCF up to 24.400

The high performance bench-top centrifuges Rotina 35 impress by state-of-the-art technology, large capacity, extremely easy handling and exceptionally smooth and quiet running. They are mainly used in the fields of diagnostic, genetic research and microbiology. Volumes from 0,2ml up to 250ml at large capacities as 10 x 50ml Falcons, 48 x 15ml or 4 x 250ml are no problem. Extremely short run-up and run down times, impulse-button, RPM input in increments of 10 or RCF-input in increments of 1 as well as 3 running programmes make this centrifuge very easy to operate. It features also high safety standards: metal housing and -lid, automatic rotor recognition, imbalance switch off, lid locking and holding, emergency lid lock release, brushless induction drive.

Specifications: Temperature range MZ013: -20°C to +40°C; timer 1-99 minutes

weight MZ013: 70kg, dimensions 380 x 468 x 695 mm (H x W x D)

weight MZ013-UK: 43kg, dimensions 380 x 468 x 540mm (H x W x D)

The complete accessories are available on request, please ask us for the possibilities for your tube if not listed.

Cat. #	Description	Capacity ml	RCF
MZ013	cooling centrifuge up to -20°C	250ml max.	
MZ013-UK	centrifuge w.out cooling	250ml max.	
MZ013-1789	angle rotor 45° aerosol tight	30 x 0,5/1,5/2,0ml	24.400
MZ013-1713	swing out rotor	2-place MTP, 45°	1.968
MZ013-1735	suspension f. -1713	metal suspension	
MZ013-1725	swing out rotor	4-place MTP, 90°	2.147
MZ013-4345	suspension f. MZ013-1725	1 steel suspension	
MZ013-1717	swing out rotor 10-place 45°	w. suspension f. 10 x 50ml Falcons	4.556
MZ013-1462	suspension f. MZ013-1717	for 15ml Falcons	
MZ013-1794	swing out r. w.out suspension	4-place	2.808
MZ013-1790	metal suspension f.-1794	for 1 x 250ml	
MZ013-5133	suspension f. -1794	1 x (4 x 15ml Falcon-tubes)	2.808
MZ013-1793	suspension f. -1794	1 x (2 x 15ml Falcon-tubes)	2.808
MZ013-1726	swing out rotor	6-place 90°	2.808
MZ013-1742	suspension for MZ013-1726	7x15ml/17x100 o.3x15ml Falcon	
MZ013-1748	rotor for ZYTO beaker	8 place	



Orbis „Personal Plate Shaker“

New, the small handy microplate shaker for reliable efficient and long life operation.

- minimal footprint, dimensions 93x133x87mm (WxDxH)
- open construction for easy integration with robotic systems
- variable speed from 950 to 1300r.p.m., orbit 1mm
- orbis plus with timer 1 to 180 minutes
- power supply 15V 100mA DC, 110-230Volt 50/60Hz

Cat.#	Description
L070	microplate shaker
L071	microplate shaker with timer
L071-A	adaptor for 40 x 1,7ml tubes
L070-D	lid, clear styrene



„Personal“ Microplate Incubator

The personal microplate incubator for reliable, efficient and long life operation. Minimal footprint, dimensions 120x180x100mm (WxDxH). The use of unique design and advanced electronic temperature control guarantees an outstanding stable and accurate performance combined with quiet and long operating life. Temperature range 5°C above RT to 45°C, build in timer, accommodates all styles of microplates. Minimum evaporation losses with uncovered plates, no maintenance required.

Low Voltage for added safety.

Power supply 12Volt 2A DC, 100-230 Volt, 50/60 Hz, weight 920g.

Cat #	Description
L078	„Personal“ Microplate-Incubator

Microplatewasher/ -filler at www.kisker-biotech.com



Microtiter plate-Thermo-Shaker

This unique Microplate shaker combines shaking and heating. It can either shake or heat or shake/heat at same two microplates at the same time. It provides shaking action 250–1.200r.p.m / 2mm amplitude. The heat is transferred to the sample from the platform and the heated lid. This heating from both sides guarantees a very good temperature stability at low evaporation. The temperature can be regulated from 25 °C or RT up to 60°C. All electronic functions including the 96 hour timer are microprocessor controlled.

weight 6,2kg, dimensions 270 x 260 x 125mm (W x D x H)
low voltage external power supply 12 volt, 4,16A



Cat.#	Description
L079	Microtiter plates – Thermo-Shaker

Microtiter plate-/ Multi-Well-Plate-/ Microcentrifugetube-Shaker

The shaker provides rotary shaking action with 50–1.250r.p.m / 4mm amplitude. It is useful for all application like gentle shaking for cultures and strong shaking for tubes and MTP's. The Shaker is microprocessor controlled and has a constant speed also at high frequency. More important for many applications is the gentle starting of the shaking process, which avoids a strong disturbing or squirt out of the sample at the start of the shaking action.

- the display shows set and real speed
- weight 4,7kg, dimensions 240 x 250 x 175mm (L x W x H)
- all are being delivered including platforms, trays are optional

Cat.#	Description
L027	Shaker for 4 MTP's
L028	Shaker for 8 MTP's
L029	Shaker for 4 Multi-Well
L030	Shaker for 4 x 20 1,5ml
L030-0.5	Trays for 0,5ml tubes 5 pc
L030-1.5	Trays for 1,5ml tubes 5 pc
L030-2.0	Trays for 2,0ml tubes 5 pc



Mini 3D shaker

A small 3D shaker – stainless steel housing, speed can be set infinitely variable from 15–60r.p.m, shaking angle 7°, optional platform for 26 tubes available

Dimensions: 160 x 150 x 160mm

Loading capacity: 500g, platform size: 200 x 200mm

Weight: 1,2 kg, power: 12 Volt, 300mA

Cat.#	Description	Power requirements
L040	3D-shakerr	220 Volt/50Hz
L040-A	ube-adaptor	



Multi-Dancer, the multi-talent

an ideal shaker for agar-plating techniques
reciprok-shaking 0–360°, 30° increments, 0–250 sec timer
3D-Shaking 0–360° speed 5–30r.p.m
Vortexing 0–6°, 1° increments, 0–5 sec-timer

rocking angle 7°

programmable cycles with up to 125 repetitions
max. loading capacity 1kg

Cat.#	Description	Power requirements
L045-N	Multi-Dancer	12 Volt, 500mA



Orbital Shaker

A compact orbital shaker with simple interchangeable platforms for flasks and plates. Shaking speed 50–250r.p.m. with digital display and timer 1–24 hours. Amplitude 20mm, maximum loading capacity 2,5kg

Working temperature: 4–45°C, non condensing

Weight: 2,2kg, dimensions 220 x 190 x 70mm



Cat. #	Description		Dimensions mm
L044	Orbital Shaker	12Volt, 800mA	
L044-F	univ. flask cap	with 3 adjustable bars	270 x 195
L044-F/6	flask cap for	6 x 250–300ml Fl.	250 x 190
L044-F/9	flask cap for	9 x 100–150ml FL.	250 x 190
L044-P	platform for	petri dishes	220 x 220

Orbital Shaker – „CLASSIC“

The orbital shaker CLASSIC is especially designed for mixing of biological suspensions or chemical components in bigger volumes. CLASSIC is useful for e.g. extractions, dissolving of slow reaction samples, cell culture, de-aerations, moving of closed containers for dialysis. The userfriendly platforms for different applications are easy to change.

Specifications: shaking frequency 50–250rpm

digital display and timer 1–999 min.

amplitude 20mm, max. loading capacity 6,0 kg

operating temperature: 4–45°C in a non condensing room

weight: 13,5kg, dimensions 280 x 380 x 210mm



Cat. #	Description		Dim. in mm L048
L048	orbital shaker	220V/50Hz	
L048-F/20	flask cap for	20 x 100–150ml	340x270x45
L048-F/12	flask cap for	12 x 250–300ml	340x270x70
L048-F/6	flask cap for	6 x 500ml	340x270x80

MINI-Rocker

A small rocker with variable shaking frequency from 7,5–30r.p.m /min and a rocking angel of 7° The MINI-Rocker is equipped with a 0–24 hour timer and LED display.

Dimensions: 130 x 150 x 90mm, weight: 2,1kg

Platform 200 x 200mm, loading max. 500g

External powersupply: 12 Volt, 500mA



Cat. #	Description	Power requirements
L024	MINI-Rocker	12Volt/500mA

MAXI-Rocker

A shaker in compact design with smooth running, strong motor; platform with anti-slip mat, dimensions 300 x 300mm.

The shaker is very useful for cold rooms and rooms with high humidity.

Dimensions 335 x 335mm x 190mm

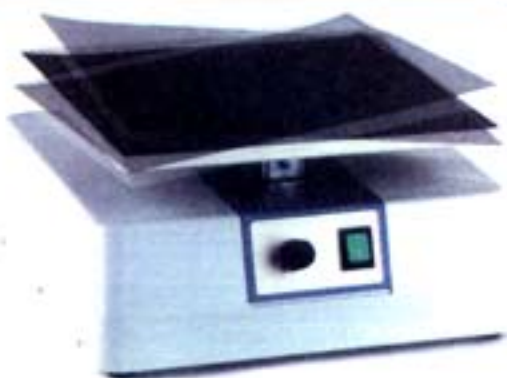
rocking angle 5,5° (on request with 4,5 or 7,5°)

variable speed of 12–50r.p.m.

loading capacity 5kg

operating temperature from –5°C to 60°C, maximum humidity 95%

weight 7 kg



Cat. #	Description	Power requirements
L047	Maxi-Rocker	220 Volt/50Hz

Test-Tube-Rotator, variable speed

The Test Tube Rotator provides diffusion, dialysis, extraction or mixing.

The electronically controlled motor provides speed from 5–50r.p.m. and a timer set up of 0–99 hrs, 1–59min. The Test Tube Rotator is easy to handle through „Memory“- and „Restart“-functions and exchangeable discs for tubes of 4–40mm. Angle of rotation can be set from 27°–90°; adaptors allow the simultaneous run of 2 or 3 discs.

Specifications: Dimensions: 200 x 200 x 250mm (LxWxH); Weight.: 3,5kg; Motor 220 Volt, 50Hz

Cat. #	Description	Quantity x Tube Ø
L009	Var. Rotator	
L009-4	Disc (0,5ml)	40 x 4– 6mm
L009-6	Disc	30 x 6– 9mm
L009-9	Disc (1,5/2,0ml)	20 x 9–12mm
L009-12	Disc (15ml)	20 x 12–16mm
L009-16	Disc	20 x 16–19mm
L009-19	Disc	18 x 19–22mm
L009-22	Disc	15 x 22–25mm
L009-25	Disc (50ml)	12 x 25–28mm
L009-28	Disc	10 x 28–32mm
L009-32	Disc	10 x 32–40mm
L009-A	Adaptor	



Test Tube Rotator

For mixing, diffusion, dialysing, hybridisation etc. A synchronous motor with slow rotation speed of 10 rpm, which permits tube exchange while operating. The rotating disc can be set continuously at an angle between 90 and 270°C. The disc has a diameter of 200 mm and has chemical resistant clamps. The instrument has a weight of 4 kg, dimensions are 200 x 200 x 205mm (l x w x h)

For ordering discs please use discs from L009!

Cat. #	Description	Power requirements
L004	Rotator	220 Volt/50Hz



Mini-Rotator, Standard

This is a place saving mixer for 24 microcentrifuge tubes or 24 x 15ml tubes with max. 14mm diameter.

Specifications Standard Rotator: speed 5–30r.p.m digital timer for 24 Std, LED display

weight: 2,0kg

dimensions: 225 x 145 x 140mm

Cat. #	Description	Power requirements
L053	Mini Rotator standard	12 Volt/500mA
L053-8	Platform for 8 tubes up to 30mm Ø	



Mini-Multi-Rotator

This is a space saving mixer for 22 x 1,5/2,0ml microcentrifuge tubes or 22 x 15ml tubes up to max. 14mm Ø

Specifications Multi-Rotator: functions: rotation, vortexing 0–5°, reciprocal overheadmixing 15–90°,

speed: 5–60r.p.m.

continuous run by 24 hr. timer

weight: 1,6kg, dimensions 310 x 110 x 175mm

Cat. #	Description	Power requirements
L054-N	Multi-Rotator	12 Volt/500mA
L054-4/12	Platform f. 4x50ml/12x1,5ml	12 Volt/500mA



Rock'N'Roller

- L005:** The Rock'N' Roller keeps samples in gentle motion by rocking while rolling. 14 stainless steel rotating bars guarantee an even mixing of samples. The 14 rolls, size 208 x 10mm (L x O) are moved with 10r.p.m., rocking frequency is 5 cycles/minute at 35° movement. Weight: 3kg, dimensions: 330 x 300 x 190mm (L x W x H)
- L005-V:** Variable roll- and rocking speed, which is controlled by an external motor : 5–25r.p.m.; 2,5–12,5 cycles/min
- L005-SL:** L005-SL is a roller with 6 excentric diagonal moving PVC-rolls, useful for bottles up to 1000ml, constant rolling speed: about 50 r.p.m. The soft rocking causes a very careful mixing, useful for blood, cell suspensions, chemical based fluids like colors, cosmetics, oils etc.
Specifications: lenght of rolls 26mm, overall dimension: 380 x 270 x 100 (L x W x H)

Cat. #	Description	Speed / Power
L005	Rock'N'Roller	10rpm 220V / 50hz
L005-V	Rock'N'Roller, variable	5–25rpm 220 / , 50hz
L005-SL	Rock'N'Roller, heavy load	50rpm 220V / 50hz



L005-SL

„Rotary-Mixer“

The Rotary Mixer provides serial rotation of test tubes with a diameter range of 4–27mm. The mixer has an infinitely variable, controllable motor with a speed of 5–50r.p.m. All parts are made of aluminum or stainless steel construction. The drums and bars are easy to exchange. The digital read out shows speed and time from 1–99 hrs, 1–59 min. Easy handling is provided through „Memory“ – „Restart“ and „autostop“-functions.

Weight 3,3kg, dimensions 450 x 170 x 190mm (L x W x H), power 220 Volt/50Hz

Cat. #	Description	Quantity x Tube
L010	Rotary-Mixer	
L010-16	bar	20 x 16–20mm
L010-19	bar	18 x 19–22mm
L010-22	bar	18 x 22–27mm
L010-4	drum	104 x 4–6mm
L010-6	drum	104 x 6–9mm
L010-9	drum	104 x 9–12mm
L010-12	drum	48 x 12–16mm
L010-912	drum	56 x 9–12mm



Dispersing- and homogenizing system for molecular biology

This special developed handy mixer for smallest quantities in Bio- and Gentechnology garants the best possible dispersion and homogenization. Samples of tissue will be changed in seconds to an analysis suited material, resulting in bigger amounts and quality of isolated RNA. The system is easy to handle because of the uncomplicated change of rotors. The hand-dispersing-/homogenizing sytem is useful for volumens up to 100ml. Further systems are available up to 10.000ml.

Technical details: speed 5.000–35.000min-1, weight 600g, power input 145 Watt, power output 73 Watt

Cat.#	Description	Speed min	Power Watt	Working volume
L080	Micra D-1 drive	15.000–35.000	135	100ml
L081	Micra D-3 drive	18.000 fix	350	5.000ml
L082	Micra D-8 drive	10.500–39.000	800	20.000ml
L082-Si	Micra D-8 Silent drive	10 dB(A) Reduction	800	20.000ml
L083	Micra D-13 drive	8.500–34.500	1.300	50.000ml
		Aplication	Deepnes	Working volume
L080-20	DS-5/K Cutrotor 5mm	Smallest volumes	90–20mm	0,1– 10ml
L080-100	DS-8/P Cutrotor 8mm	tissue	200–40mm	1 – 50ml
L080-20/PG	DS-20/PG Rotor 20mm	solid-/fluid Systeme	200–40mm	100–5.000ml
L080-20/PF	DS-20/PF Rotor 20mm	solid-/fluid Systeme	200–40mm	100–5.000ml
L080-20/PG SmR	DS-20/PG SmR Cutrotor 20mm	fibrous Materiales	200–40mm	100–3.000ml
L080-20/PF SmR	DS-20/PF SmR Cutrotor 200mm	fibrous Materiale	200–40mm	100–3.000ml
L080-30/PG	DS-30/PG Rotor 30mm	solid-/fluid Systeme	200–40mm	250–10.000ml
L080-RW-30/PG	RW-30/PG Mixrotor 30mm	Mixing/cutting	200–40mm	1.000–20.000ml



„Power-Mix“

„Power – Mix“ is an universal vortex mixer for test tubes of 7 to 35mm \varnothing . The instrument can be used in „Press-to-mix“ action or continuously. The infinitely variable speed can be controled up to 2.500. By using additional accessories, 96 well plates as well as 20 x 1,5ml centrifuge tubes can be mixed at the same time.

Specifications: weight 3,2 kg, dimensions: 135x120x135mm (L x W x H)

Cat. #	Description
L002	Power Mix
L002-MTP	micro-titre-plate holder f. 1 x96 plate
L002-MRT	mini-reaction-tube-holder f. 20 tubes
L002-1TTH	one position test tube holder f. 20x200mm
L002-2TTH	multi position tube holder f. 7 tubes
L002-UKP	universal-contact-plate



MINI-Vortex

A space saving instrument to mix small samples in tubes of 1,5 to 50ml. The MINI-Vortex can be used continuously or in the press-to-mix mode. Speed can be setted variable from 300 to 2.500r.p.m.

Size: 140 x 85 x 70mm

Weight: 0,8kg

External powersupply: 12 Volt/300mA

Cat. #	Description	Power requirements
L023	MINI-Vortex	12 Volt/300mA

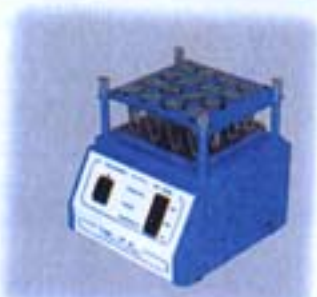


Tube-Vortexer

A very economical priced equipment for mixing 1,5/2,0ml microcentrifuge tubes, e.g for vortexing of bacteria/yeast cultures and for DNA/RNA purification.

Specifications: Capacity 16 x 1,5/2,0ml
Speed constant 2.400rpm
Amplitude 4mm
Dimensions / Weight 120 x 140 x 150mm / 4kg

Cat. #	Description	Power requirements
L055	Tube Vortexer	220Volt / 50Hz



Magnetic stirrers with or without hotplate

Electronical speed control, speed range of 50 to 1.250r.p.m., double housing of aluminum and thermovacuum formed plastic, coated with electrostatically applied powder, which is corrosion resistant; stirring capacity 5 or 20 liters

Magnetic stirrer with aluminum-hotplate for stirring and heating at the same time or independently.

Temperature range is from 50–325°C at 600 Watt. Speed range 50–1.250r.p.m. Mixing/heating on 145mm plate of volumina up to 5/ 10/ 20 liters. The aluminum housing is equipped with M10 threaded support rod connection. Working temperature is 5–50°C, allowed humidity is 90%. Specifications: Weight 2,8kg, dimensions 172 x 286 x 125mm (L x W x H)

Cat.#	Bezeichnung/RLVleistung	Motor rating on/off
L012-5	magnetic stirrer 5 liters	22 / 2,2 Watt
L012-20	magnetic stirrer 20 liters	13 / 5 Watt
L014-5	hotplate/magnetic stirrer 5 L	22 / 2,2 Watt
L014-10	hotplate/magnetic stirrer 10 L	22 / 2,2 Watt
L014-20	hotplate/magnetic stirrer 20 L	22 / 5 Watt



Mini-Magnetic Stirrer

A small motor driven magnetic stirrer in a stainless steel housing with enough mixing power for many applications in the lab. Infinitely variable speed regulation from 150–3000 r.p.m.

Weight: 1kg
 Dimensions: 120 x 55 x 60mm, dimensions plate: 110 x 110mm
 External power supply: 12 Volt, 300mA



Cat. #	Description	Power requirements
L025	MINI-Magnetic Stirrer	220 Volt/50Hz

Multi Position Magnetic Stirrers

All possibilities in one microprocessor controlled product line:

- all positions can be controlled individually
- with or without heating
- 4 or 6 positions – square or bench form
- hotplates made of 120mm stainless steel
- speed range 50–1200r.p.m.
- energy 10–300 Watt / Position

Cat #	Configurations	w./w.out hotplate	Dimensions mm	Weight kg
L060	4-position, bench form	w.out	545 x 245 x 110	7,2
L061	6-position, bench form	w.out	830 x 245 x 110	10,0
L061	4-Position, quadratic	w.out	335 x 400 x 110	7,0
L063	6-position, quadratic	w.out	500 x 400 x 110	9,8
L064	4-position, bench form	with	545 x 245 x 155	9,2
L065	6-position, bench form	with	830 x 245 x 155	13,2
L066	4-position, quadratic	with	335 x 400 x 155	9,4
L067	6-position, quadratic	with	500 x 400 x 155	13,0

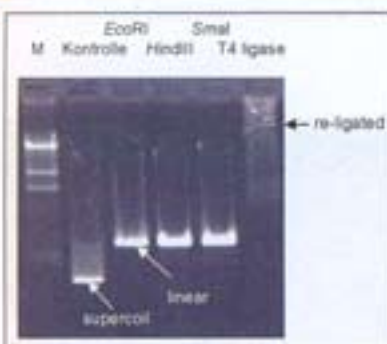


DNA/RNA Preparation

Quali – Prep Plasmid Mini Prep Kit

- 20 % higher yield than similar kits
- faster protokol: 15 min. for 2 x 2ml culture; 45 min. for 20 parallel preparations
- high quality with all downstream applications
- work flow for 1–6 ml bacteria culture
- for E. coli and other Gram-negative bacteria
- very high reproducibility, low error margin <5%:

Quali – Prep Plasmid Mini Prep Kit: High DNA quality for downstream applications



Plasmid DNA (100ng, control) was cut with restr. enzymes (EcoRI, HindIII, SmaI) and then locked as a substrate in the ligations reaction (T4 ligase).

The result:
 highest quality of plasmid DNA preparations.

1. Centrifuging of culture at ≥ 13.000 rpm for 30–60s.
2. Resuspending of pellets in 250 μ l buffer 1.
3. Mixing with 250 μ l buffer 2.
4. Mixing with 350 μ l buffer 3.
5. Centrifuging at ≥ 13.000 rpm for 7 min.
6. Decanting of solution in Mini Spin Columns and centrifuging at ≥ 13.000 rpm for 30 seconds.
7. Washing of the pillar with 700 μ l AHN buffer 4 (30 seconds, ≥ 13.000 rpm).
8. Drying of the membrane at ≥ 13.000 rpm for 1 min
9. Pipetting of 30–100 μ l buffer 5 or water on the membrane, 1 min incubation time and at ≥ 13.000 rpm centrifuging for 1 min

We will be glad to send you the complete presentation via e-mail.

Cat #	Description	Units
QPM-Kit-4	QualiPrep Plasmid Mini Prep Kit	4 Columns Sample pack
QPM-Kit-50	QualiPrep Plasmid Mini Prep Kit	50 Columns
QPM-Kit-250	QualiPrep Plasmid Mini Prep Kit	250 Columns

Filter-Tubes, Spin-Column-System and Filter plates in mikroplate-format

Filtration systems for cleaning, isolation and separation of bio molecules, especially of nuklein acids (DNA/RNA).

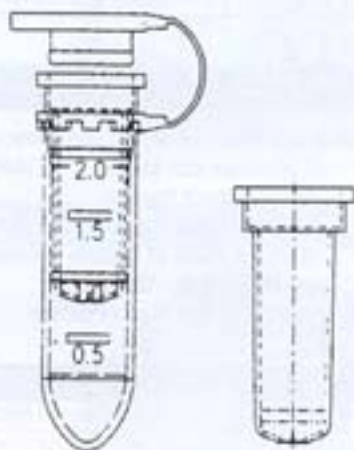
Made of high-quality polypropylen without any recycle. Standardized with effective, small pore GF/0,7 μ glas fibre-microfilter made of 100% pure borsilicate-glas. Customer specific the Filter-Tube can be supplied with every desired glas fibre- or other microfilters.

- high filter speed
- high-quality filter with effective particleretention of 0,7 μ and larger
- optimal reception volume of 800 μ l
- complete with receiver-tubes.

The complete Spin Column System with filter-tubes and receiver-tubes!

Receiver-Tubes with 1,5ml or 2ml volumes, specifically tuned to reception of filter-tubes. With optimal and secure lid passform made of absolutely pure polypropylen aswell as graduations for simple, visual volume control and space for inscription. Usable as modern, qualitatively high-quality reaction tubes with a very uniform wall thickness, usable for all applications because of newest die-casting technology.

Cat #	Description	Filter	Units
FT-1.5	Filter-Tube System	GF/0,4	100 Filtertubes + 100 Receiver-Tubes
FT-2.0	Filter-Tube System	GF/0,4	100 Filtertubes + 100 Receiver-Tubes



Filterplates in mikroplate-format.

Filter-Microplate:

- made of high-quality polystyrol for outstanding transparency
- 8x12 matrix with 96 deepenings with an optimales volumen of 800 μ l
- suitable for all applications, supplied with diverse glas fibre- or other microfilters
- high filtration speed with long drop driver for better use and as a secure protection of crosscontaminatios.

Receiver-Microplate:

Receiver-Plate in mikroplate format with round bottom, fits optimal with filterplate; also usable as Deep-Well-Plate with 1ml volume per deepening; made of pure, high-quality polystyrol, very clear and transparent

Cat. #	Description	Filter in μ	Units
FRM-1000	Receiver-Microplate, 1000 μ l		25 Receiver - Plates
FM-GFM	Filter-Microplate, 800 μ l	GFM/0,4	25 Filter - Plates
FM-NC-0.2	Filter-Microplate, 800 μ l	NC- 0.2	25 Filter - Plates
FM-NC-0.45	Filter-Microplate, 800 μ l	NC- 0.45	25 Filter - Plates
FM-PVDF-0.2L	Filter-Microplate, hydrphil	PVDF- 0.2	25 Filter - Plates
FM-PVDF-0.2B	Filter-Microplate, hydrophob	PVDF- 0.2	25 Filter - Plates
FM-NY-0.2	Filter-Microplate, 800 μ l	Nylon- 0.2	25 Filter - Plates
FM-NY-0.45	Filter-Microplate, 800 μ l	Nylon- 0.45	25 Filter - Plates
FM-PES-5	Filter-Microplate, 800 μ l	PES- 5KD	5 Filter - Plates
FM-PES-10	Filter-Microplate, 800 μ l	PES- 10KD	5 Filter - Plates
FM-PES-30	Filter-Microplate, 800 μ l	PES- 30KD	5 Filter - Plates
FM-PES-50	Filter-Microplate, 800 μ l	PES- 50KD	5 Filter - Plates
FM-PES-100	Filter-Microplate, 800 μ l	PES- 100KD	5 Filter - Plates
FM-RC-5	Filter-Microplate, 800 μ l	RC- 5KD	5 Filter - Plates
FM-RC-10	Filter-Microplate, 800 μ l	RC- 10KD	5 Filter - Plates
FM-RC-30	Filter-Microplate, 800 μ l	RC- 30KD	5 Filter - Plates
FM-RC-100	Filter-Microplate, 800 μ l	RC- 100KD	5 Filter - Plates



Coated Polystyrene Particles

The coated microparticles are prepared either by passive adsorption or covalent coupling depending upon the intended applications. The avidin and biotin coated particles are prepared by covalent coupling. Even through the 0,7–0,9 μ Goat anti-mouse IgG coated polystyrene particles are prepared by using passive adsorption, the coated particles are stable for several years under proper storage conditions. **Some typical data for Avidin polystyrene particles (0,8 μ) are:**

Covalently coated with egg white avidin, avidin content 14 μ g/mg solid, 0,212 nmole/mg solid

Binding capacity to Biotin-Fluorescein 0,46 nmole/mg solid

Antibody coated polystyrene particles (0,8 μ):

Antibody contents 14 μ g/mg solid, 0,2 μ g/cm², 1,5 x 10⁴ IgG/particle, binding capacity to IgG-FITC 4 μ g/mg



Cat. #	Description	Size μ / unit	% w/v
PC-Fc-0.8	Goat Anti-mouse IgG polystyrene, affin. pur., Fc specific	0,7–0,9/20ml	0,25
PC-HL-0.8	Goat Anti-mouse IgG polystyrene, affin. pur., H & L	0,7–0,9/20ml	0,25
PC-CAR-3.0	Goat Anti-Rabbit IgG (Fc) polystyrene	0,7–0,9/20ml	0,25
PC-Fc-3.0	Goat Anti-mouse IgG (Fc) polystyrene	3,0–3,9/ 5ml	0,5
PC-Fc-6.0	Goat Anti-mouse IgG (Fc) polystyrene	6,0–8,0/ 5ml	0,5
PC-A-0.7	Avidine-polystyrene	0,7–0,9/10ml	5,0
PC-A-1.0	Avidine-polystyrene	1,0–1,4/10ml	5,0
PC-A-3.0	Avidine-polystyrene	3,0–3,9/10ml	5,0
PC-A-6.0	Avidine-polystyrene	6,0–8,0/ 5ml	0,5
PC-S-0.3	Streptavidine-polystyrene	0,3–0,39/10ml	1,0
PC-S-0.4	Streptavidine-polystyrene	0,4–0,6/10ml	1,0
PC-S-0.8	Streptavidine-polystyrene	0,7–0,9/10ml	1,0
PC-S-2.0	Streptavidine-polystyrene	2,0–2,9/ 5ml	0,5
PC-S-3.0	Streptavidine-polystyrene	3,0–3,9/ 5ml	0,5
PC-S-4.0	Streptavidine-polystyrene	4,0–4,9/ 5ml	0,5
PC-S-6.0	Streptavidine-polystyrene	6,0–8,0/ 5ml	0,5
PC-B-0.8	Biotin-polystyrene	0,7–0,9/ 5ml	1,0
PC-B-3.0	Biotin-polystyrene	3,0–3,9/ 5ml	0,5
PC-B-6.0	Biotin-polystyrene	6,0–8,6/ 5ml	1,0

Coated Magnetic Particles

These magnetic particles are prepared by coating a layer of iron oxid and polystyrene onto the core of the particles. They are relatively uniform in size, spherical in shape and paramagnetic in nature. The paramagnetic nature of the particles allows them to be separated by using a magnet but the particles will resuspend easily when removed from the magnet. They will not retain any significant magnetism even after repeated exposure to strong magnetic field

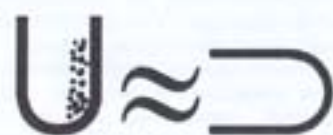
These magnetic particles can be used for cell separation, affinity purification, DNA probe assays, magnetic particle EIA etc. The coated magnetic particles are prepared by covalent coupling, concentration is about 2 x 10⁸ particles/ml, 0,02% sodium azide added.

Cat. #	Description	Size μ / unit	% w/v
PMAv-1	Magnet Particles Avidin coated	1,0–1,9/ 10ml	1%
PMAv-4	Magnet Particles Avidin coated	4,0–4,5/ 10ml	1%
PMAv-6	Magnet Particles Avidin coated	6,0–8,0/ 10ml	1%
PMAv-8	Magnet Particles Avidin coated	8,1–9,9/ 5ml	1%
PMSSt-0.7	Magnet Particles Streptavidin coated	0,7–0,9/ 10ml	0,5%
PMSSt-1.0	Magnet Particles Streptavidin coated	1,0–1,4/ 10ml	0,5%
PMSSt-1.5	Magnet Particles Streptavidin coated	1,5–1,9/ 5ml	0,5%
PMSSt-2.0	Magnet Particles Streptavidin coated	2,0–2,9/ 10ml	0,5%
PMSSt-3	Magnet Particles Streptavidin coated	3,0–3,9/ 10ml	0,5%
PMSSt-4	Magnet Particles Streptavidin coated	4,0–4,5/ 10ml	1%
PMSSt-5	Magnet Particles Streptavidin coated	4,6–5,9/ 10ml	1%
PMSSt-6	Magnet Particles Streptavidin coated	6,0–8,0/ 5ml	1%
PMSSt-8	Magnet Particles Streptavidin coated	8,0–9,9/ 5ml	1%
PMGAM-4	Magnet Part. Goat anti-mouse IgG (Affinity purified, H & L)	4,0–4,5/ 10ml	1%
PMGAR-4	Magnet Part. Goat anti-rabbit IgG (Affinity purified H & L)	4,0–4,5/ 10ml	1%
PMGAH-4	Magnet Part. Goat anti Human IgG (Affinity purified H & L)	4,0–4,5/ 10ml	1%
PMB-1	Magnet Part. Biotin covalently coupled to BSA coated Mag.Part.	1,0–1,9/ 10ml	1%
PMB-4	Magnet Part. Biotin covalently coupled to BSA coated Mag.Part.	4,0–4,5/ 10ml	1%
PMTTr-4	Magnet Particles Trypsin coated	4,0–4,5/ 2ml	1%
PMPPrA-4	Magnet Particles Protein A coated	4,0–4,0/ 5ml	1%
PMPPrG-4	Magnet Particles Protein G coated	4,0–4,5/ 5ml	1%

Magnetizable microparticles

In many experiments the careful separation of cells or cellfragments is a problem. Magnetizable (paramagnetic) particles have the characteristics to be magnetized within a magnetic field. So they can be separated easily within a solution. Outside of the magnet field the particles are not magnetic. The particles are made from magnetit in a styren-maleic-copolymer as organic matrix ($\rho = 1,4\text{g/cm}^3$). They are covered with COOH-groups and useful for the unspecific and covalent coupling of proteins, antibodies and DNA. The particles are monodisperse with low SD and a CV of less than 5%. They are supplied as aqueous solution in concentration of 25mg/ml

Cat. #	Size/ quantity/ concentration	chemistry
PMC-0.7	0,7–0,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-1.0	1,0–1,4 μ / 10ml/ 25mg/ml	COOH funct.
PMC-1.5	1,5–1,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-2.5	2,0–2,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-3.5	3,0–3,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-4.5	4,5–4,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-5.5	5,0–5,9 μ / 10ml/ 25mg/ml	COOH funct.
PMC-7.0	6,0–8,0 μ / 10ml/ 25mg/ml	COOH funct.
PMC-8.5	8,0–8,9 μ / 10ml/ 25mg/ml	COOH funct.



Magnet Separation Rack

To separate magnetic particles a high magnetic field as provided by strong neodymium magnets is necessary. This acrylic 10 place rack allows the simultaneous separation of 5 x 1,5/2,0ml microcentrifuge tubes and the storage of 5 x 1,5/2,0ml tubes in a second row.

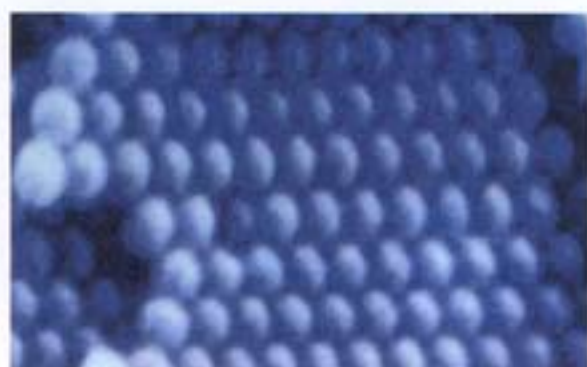
Cat. #	Description
MR-10	Magnet Separation Rack



Polystyrene Microparticles

These monodisperse polystyrene microparticles, also called „Latex“ – microspheres, are used in a wide range of immunodiagnostic assays, as size standards for calibration of equipment, in cellbiology applications etc. The physical adsorption of the polystyrene particles is used to bind ligands to the surface of the particles. The polystyrene particles are offered in 2,5% aqueous suspension.

Cat. #	Size / quantity	Chemistry
PPs-0.05	0,05 μ / 15ml	plain
PPs-0.1	0,1 μ / 15ml	plain
PPs-0.2	0,2 μ / 15ml	plain
PPs-0.4	0,4 μ / 15ml	plain
PPs-0.6	0,6 μ / 15ml	plain
PPs-0.8	0,8 μ / 15ml	plain
PPs-1.0	1,0 μ / 15ml	plain
PPs-2.0	2,0 μ / 10ml	plain
PPs-3.0	3,0 μ / 10ml	plain
PPs-4.0	4,0 μ / 5ml	plain
PPs-6.0	6,0 μ / 5ml	plain
PPs-8.0	8,0 μ / 5ml	plain
PPs-10.0	10,0 μ / 5ml	plain
PPs-12.0	12,0 μ / 5ml	plain



Glass Beads

Glass beads in sizes of 100 μ to 1000 μ are often used for disrupting yeast and other bacteria by grinding for e.g.DNA lysis. The density is 2,5 g/cm³, chemical characterisation is 72% SiO₂, 13% Na₂O, 9% CaO. The glass beads are PbO free and mainly round above 250 μ = 95%. We have listed in the table the nominal number of beads/g as a guideline.

Cat. #	Size	Pack size / beads/g	Cat. #	size	Pack size / beads/g
PGB-05	10– 50 μ	50g 2,4 x 107	PGB-025	150–250 μ	50g 9,5 x 104
PGB-07	40– 70 μ	50g 7,0 x 106	PGB-040	300–400 μ	50g 2,1 x 104
PGB-011	70–110 μ	50g 1,0 x 106	PGB-050	250–500 μ	50g 1,3 x 104
PGB-015	90–150 μ	50g 7,0 x 105	PGB-060	400–600 μ	100g 6.000
PGB-020	100–200 μ	50g 2,8 x 105	PGB-075	500–750 μ	100g 4.000