

Life Science



Think! Development and production of customized products



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Micro Test Plates

96-Well Micro Test Plates, volume approx. 300 µl

Clear polystyrene (PS) or translucent polypropylene (PP).

- with U-, F-, or V-bottom
- SBS standard micro test plate format
- 8 x 12 wells alphanumerically coded
- wells with raised rims for reduced cross-contamination and effective sealing with Ratiolab cover films (see on page 63)
- precise design, perfectly shaped for use with automatic systems
- optimum space for precise positioning
- space-saving and stackable
- polypropylene plates may be sealed with heat-sealing films without deformation



PS

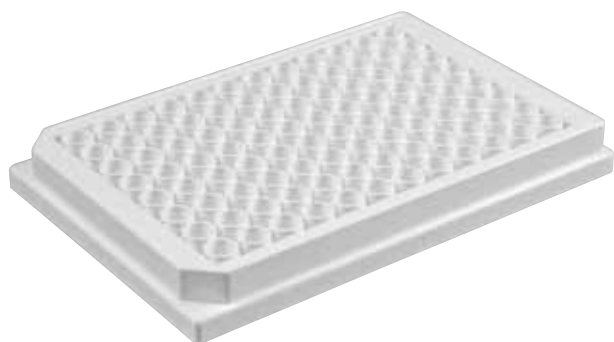


PP



Bottom	Material	Sterilized	Packaging	Quantity per Pack	Order No.
U	PS	–	bags 10 x 10	100	60 18 111
U	PS	■	individually in bags 100 x 1	100	60 18 113
U	PP	–	bags 10 x 10	100	60 18 121
U	PP	■	individually in bags 100 x 1	100	60 18 123
F	PS	–	bags 10 x 10	100	60 18 211
F	PS	■	individually in bags 100 x 1	100	60 18 213
F	PP	–	bags 10 x 10	100	60 18 221
F	PP	■	individually in bags 100 x 1	100	60 18 223
V	PS	–	bags 10 x 10	100	60 18 311
V	PS	■	individually in bags 100 x 1	100	60 18 313
V	PP	–	bags 10 x 10	100	60 18 321
V	PP	■	individually in bags 100 x 1	100	60 18 323

Micro Test Plates



96-Well Luminescence Plates, volume approx. 300 µl

Polypropylene (PP).

- with U-bottom or with F-bottom
- SBS standard micro test plate format
- 8 x 12 wells alphanumerically coded
- wells with raised rims for reduced cross-contamination and effective sealing with Ratiolab cover films (see on page 63)
- precise design, perfectly shaped for use with automatic systems
- optimum space for bar code labels on the side walls
- space-saving and stackable

Bottom	Color	Packaging	Quantity per Pack	Order No.
U	black	bags 10 x 10	100	60 18 710
F	white	bags 10 x 10	100	60 18 720

Lids for Micro Test Plates

Optional in highly transparent polystyrene (PS) or polypropylene (PP).

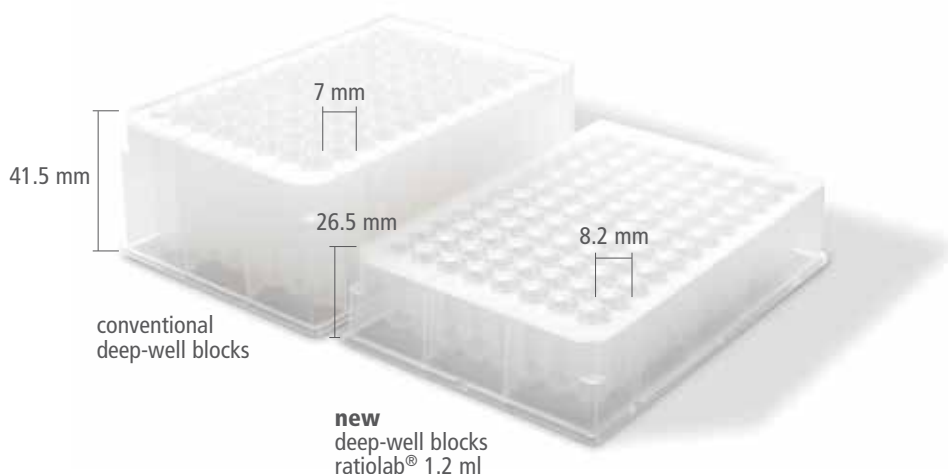
Material	Sterilized	Packaging	Quantity per Pack	Order No.
PS	–	bags 10 x 10	100	60 18 402
PS	■	individually in bags 100 x 1	100	60 18 401
PP	–	bags 10 x 10	100	60 18 422
PP	■	individually in bags 100 x 1	100	60 18 421

Deep-Well-Blocks

ratiolab® low-profile deep-well blocks (96)

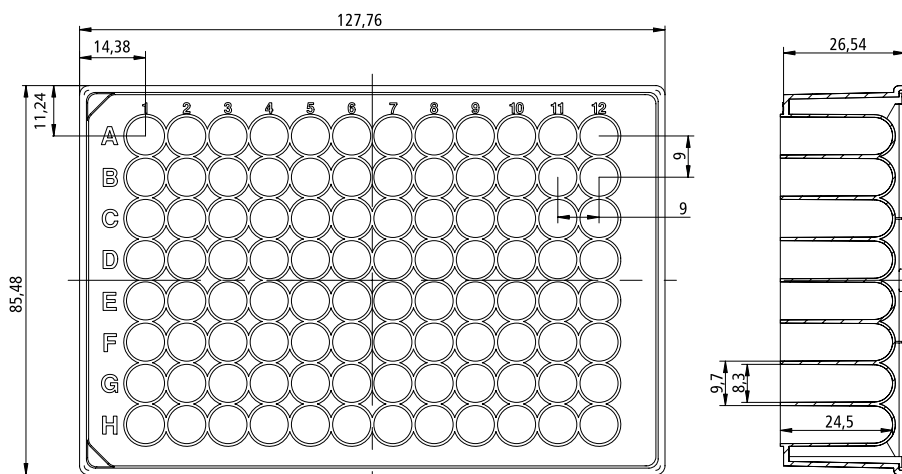
These 1.2 ml low-profile deep-well blocks are ideal for pharmaceuticals, biotechnology and diagnostics. Of the same standard dimensions (Society for Biomolecular Sciences – SBS), they are one-third lower than standard deep-well plates (96). They thus require less space! Requiring some 30% less space, they help to optimize warehouse space, hence lowering costs – especially for expensive cryo-storage applications.

The cavities are some 20% larger than conventional plates. Thus, when used with robots, they provide additional security. The chimney form of the wells reliably prevents cross-contamination. Their precise, true-to-size form makes them highly suitable for high-throughput screening (HTS).



Clear polypropylene (PP).

- about half as high as conventional deep-well blocks at 1.2 ml fill volume
- SBS standard micro test plate format
- well with significantly larger cross section
- wells with raised rims for reduced cross-contamination
- improved visual control due to clear polypropylene
- autoclavable at 121 °C, 20 min
- temperature resistant to – 80 °C
- 8 x 12 wells with alphanumeric code in micro test plate format
- optimally sealing with Ratiolab cover films (see on page 63)
- precise design, for use in automatic pipetting systems for High Throughput Screening (HTS)
- optimum space for bar code labels on the side walls
- space-saving and stackable



Deep-Well-Blocks



1



2



3



4

96-Deep-Well-Blocks

Translucent polypropylene (PP), surface with very low protein binding.

Volume per Well ml	Fig. No.	Bottom	Packaging	Quantity per Pack	Order No.
0.3	1	U	bags 10 x 10	100	60 20 003
0.3	1	V	bags 10 x 10	100	60 21 003
1.2	2	U	bag 10 x 5	50	81 01 012
1.2*	3	U	bags 10 x 5	50	60 20 121
2.2	4	V	bags 10 x 5	50	60 20 221

* free of DNA, RNA, **square wells

Closures for ratiolab® 96-Well Deep-Well-Blocks Low Profile, 1.2 ml

Made of thermo-plastic elastomer (TPE).

- suitable to 81 01 012
- autoclavable to 121 °C, 20 min

Product	Fig. No.	Material	Packaging	Quantity per Pack	Order No.
96-well-cover mat	1	TPE	cardboard box 10 x 10	100	81 01 101

Closures for 96-Well Deep-Well-Blocks

Made of thermo-plastic elastomer (TPE) or ethylene vinyl acetate (EVA).

- closures 82 00 008 and 82 00 009 suitable to Deep-Well-Block 60 020 121
- closures 82 00 010 suitable to Deep-Well-Block 60 20 221

Product	Fig. No.	Material	Packaging	Quantity per Pack	Order No.
1.2 ml 8-well-cover strips	2	TPE	bag 1 x 1000	1000	82 00 008
1.2 ml 96-well-cover mats	3	TPE	bags 10 x 10	100	82 00 009
2.2 ml 96-well-cover mats**	4	EVA	bags 50 x 1	50	82 00 010

**for 96-square well plates



1



2



4

ratiolab® Micro-Tubes System

The ratiolab® Micro-Tubes System

This is a highly practical system for processing small volumes. The reusable Micro-Rack is the work station and takes 96 micro-tubes in the standard 8 x 12 SBS microplate format. It is a stable and robust system and has a dust-tight lid. A sloping edge helps the positioning of the refill unit. The side edges can be labeled with a barcode. The rack is excellently suited to use in automatic dosing and robotic systems.

The 0.65 and 1.2 ml micro-tubes can be supplied as single, strips of 8 or in 96-well format as a refill system for 8 x 12 plates.

The tubes are closable either with an 8-lid strip or an 8 x 12 closure mat.

- the Micro-Tubes are autoclavable for 20 min at 121 °C
- temperature-resistant to – 80 °C



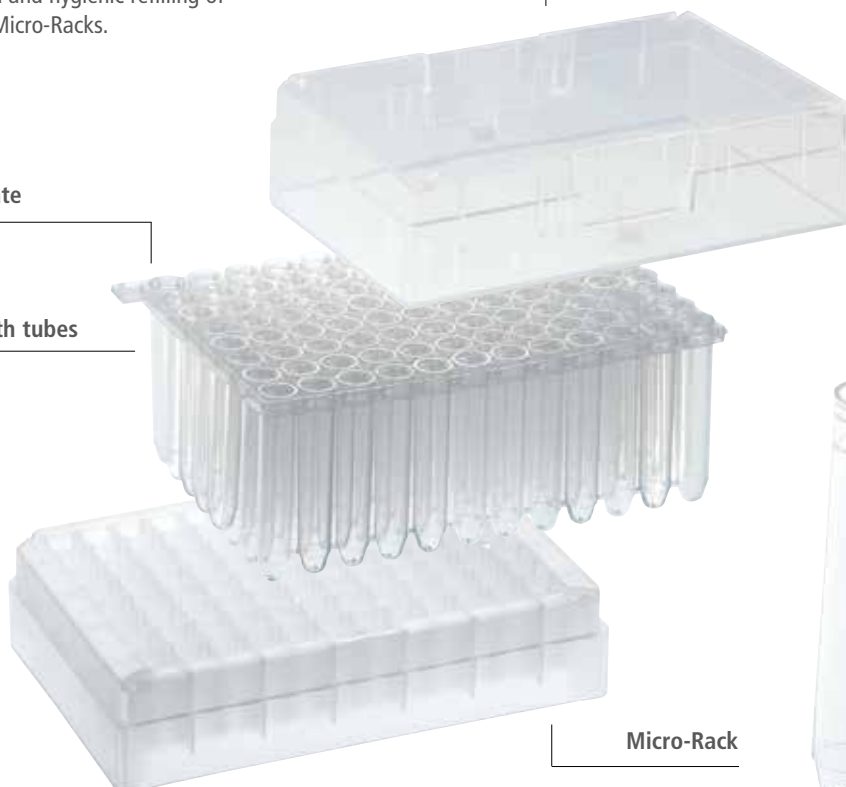
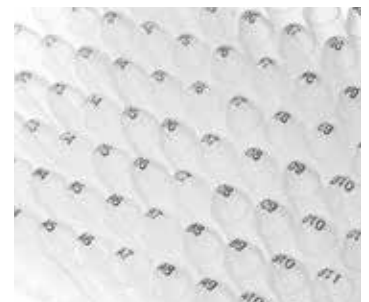
The refill system ensures easy, rapid and hygienic refilling of the Micro-Racks.

Lid

Plate

with tubes

The tubes can be removed singly and are numbered on the bottom.



Micro-Rack



Micro-Tubes 2.0 ml

ratiolab® Micro-Tubes System



ratiolab® Micro-Tubes

Translucent polypropylene (PP) with very low protein binding.

- available as individual Micro-Tubes or Micro-Tube-Strips of 8 tubes for use with Micro-Racks
- volume 0.65 or 1.2 ml with round bottom

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
ratiolab® Micro-Tubes, individual	0.65	round	bags 5 x 1000	5000	82 00 021
ratiolab® Micro-Tubes, individual	1.2	round	bags 5 x 1000	5000	82 00 001
ratiolab® Micro-Tube-Strips of 8 tubes	0.65	round	bags 5 x 120	600	82 00 022
ratiolab® Micro-Tube-Strips of 8 tubes	1.2	round	bags 5 x 120	600	82 00 002



ratiolab® Micro-Racks, loaded or empty

Micro-Racks, tray and lid of translucent polypropylene (PP).

- available as empty racks or equipped with coded or non-coded Micro-Tubes
- pressure-tested tightness of the Micro-Tubes
- stackable, for the use with stacker instruments

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
ratiolab® Micro-Racks, loaded, non-coded	0.65	round	50 Micro-Racks of 96 Micro-Tubes	50	82 00 023
ratiolab® Micro-Racks, loaded, coded	0.65	round	50 Micro-Racks of 96 Micro-Tubes	50	82 00 024
ratiolab® Micro-Racks, empty	0.65	–	50 Micro-Racks for 96 Micro-Tubes	50	82 00 027
ratiolab® Micro-Racks, loaded, non-coded	1.2	round	50 Micro-Racks of 96 Micro-Tubes	50	82 00 003
ratiolab® Micro-Racks, loaded, coded	1.2	round	50 Micro-Racks of 96 Micro-Tubes	50	82 00 004
ratiolab® Micro-Racks, empty	1.2	–	50 Micro-Racks for 96 Micro-Tubes	50	82 00 007



ratiolab® Micro-Tubes Refill System for Micro-Racks

The Micro-Tubes are placed on an 8 x 12 tray and packed in an environmentally friendly cardboard box. The loaded tray can easily be moved from the cardboard box into the empty Micro-Rack.

- available with coded or non-coded Micro-Tubes
- for the very efficient, hygienic, and fast loading of Micro-Racks
- convenient handling and reduced waste
- pressure-tested tightness of the Micro-Tubes

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
Micro-Tubes Refill-System for Micro-Racks					
ratiolab® Refill with 96 Micro-Tubes, non-coded	0.65	round	50 Refills of 96 Micro-Tubes	50	82 00 025
ratiolab® Refill with 96 Micro-Tubes, coded	0.65	round	50 Refills of 96 Micro-Tubes	50	82 00 026
ratiolab® Refill with 96 Micro-Tubes, non-coded	1.2	round	50 Refills of 96 Micro-Tubes	50	82 00 005
ratiolab® Refill with 96 Micro-Tubes, coded	1.2	round	50 Refills of 96 Micro-Tubes	50	82 00 006
Closures for ratiolab® Micro-Tubes					
8-cap-Strips			bag 1 x 1000	1000	82 00 008
8 x 12 cover mats			bag 10 x 10	100	82 00 009

Further cover films see on page 63.



PCR* Tubes

Pure polypropylene (PP).

- rapid and homogeneous heat transfer due to consistently ultrathin wall design
- perfect fit, compatible with all major brands of thermocyclers due to precise production
- DNase-, RNase-, DNA and endotoxin-free
- variety of tight closures available to reduce sample evaporation

PCR* Tubes, single

- volume 0.2 or 0.5 ml
- with attached cap, flat or domed
- caps designed for tight sealing, easy to open and to close

Volume ml	Fig. No.	Cap	Packaging	Quantity per Pack	Order No.
0.2	1	flat	bag 1 x 1000	1000	86 10 006
0.2	2	domed	bag 1 x 1000	1000	86 10 001
0.5	3	flat	bag 1 x 1000	1000	86 10 007
0.5	4	domed	bag 1 x 1000	1000	86 10 005

PCR* Strips of 8 Tubes

- volume 0.2 ml
- with attached domed cap strips or for use with detached 8-cap strips
- caps designed for tight sealing, easy to open and to close

Volume ml	Fig. No.	Caps	Packaging	Quantity per Pack	Order No.
with attached individual caps					
8 x 0.2	5	flat	bag 1 x 125	125	86 10 040
8 x 0.2	6	domed	bag 1 x 125	125	86 10 039
for separate cap strips					
8 x 0.2	7	without	bag 1 x 125	125	86 10 002
cap strips					
8-cap-strips	8	flat	bag 1 x 125	125	86 10 015
8-cap-strips	9	domed	bag 1 x 125	125	86 10 003

* The Polymerase Chain Reaction (PCR) is a patented process by Hoffmann-La Roche.

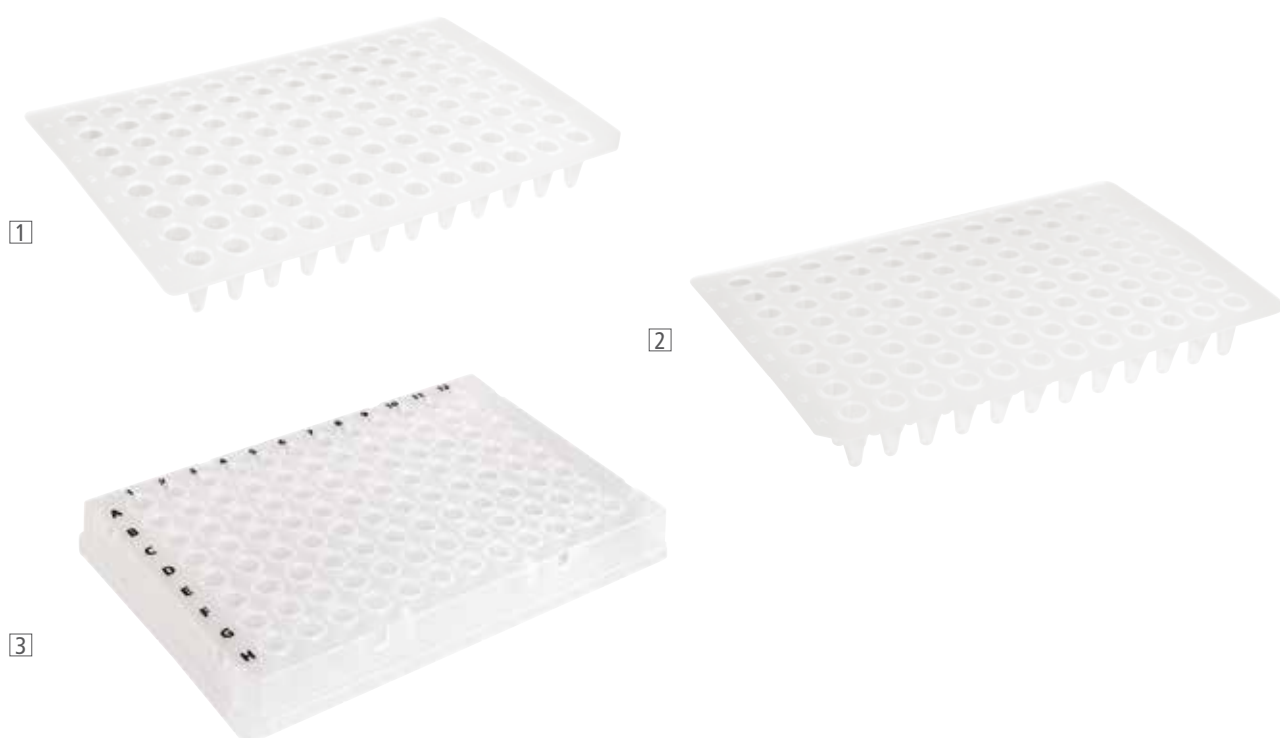
PCR* Plates

96-well PCR* Plates

These plates conform fully to the highest requirements of PCR* (Polymerase Chain Reaction). They are made of polypropylene and are characterized by their very thin but uniform walls. In this way, optimal heat transfer in short cycle times is achieved. The smooth inside walls of the cavities minimize the binding of enzymes and nucleic acids.

The plates are free of DNA, DNase and RNase. They are available optionally without or with edges (the latter to minimize cross-contamination).

- working volumes 0.2 ml
- alphanumeric coding for optimal sample identification
- available in three versions for various PCR systems



Volume ml	Fig. No.	Description	Packaging	Quantity per Pack	Order No.
96 x 0.2	1	without rim, low form	bags 10 x 10	100	86 10 014
96 x 0.2	2	without rim, high form	bags 4 x 25	100	86 10 010
96 x 0.2	3	with rim, high form	cardboard box 4 x 25	100	86 10 011

* The Polymerase Chain Reaction (PCR) is a patented process by Hoffmann-La Roche.

PCR* Accessories and Micro Centrifuge



96-Well PCR-Rack

Polypropylene (PP).

Work and storage rack for 0.2 and 0.5 ml PCR tubes, PCR strips, and PCR segments.

- 8 x 12 positions, micro test plate format
- autoclavable
- available in five colors for the convenient identification of different types of samples
- transparent lids available in two different heights

Product	Material	Quantity per Pack	Order No.
PCR-Rack white	PP	10	61 14 100
PCR-Rack yellow	PP	10	61 14 101
PCR-Rack green	PP	10	61 14 103
PCR-Rack red	PP	10	61 14 104
PCR-Rack blue	PP	10	61 14 102
lid for PCR-Racks, 14 mm high	PP	10	61 14 110
lid for PCR-Racks, 28 mm high	SAN**	10	61 14 111

** Styrol-Acrylnitril

Floating Cryo Racks

Ideal for the thawing out or cooling of samples in PCR tubes and PCR strips. The loaded racks remain floating. The tubes fit firmly in the racks and keep them well positioned in the bath.

Product	Quantity per Pack	Order No.
Floating Cryo Racks for 10 PCR tubes	10	61 14 200
Floating Cryo Racks for 4 PCR strips of 8 tubes	10	61 14 201

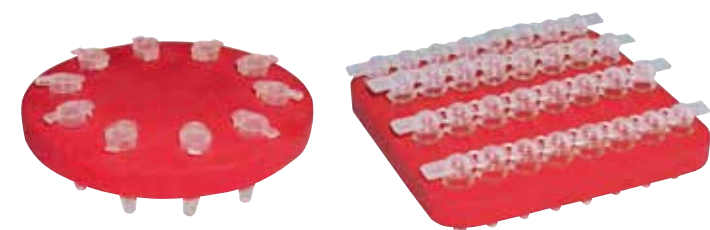
Micro Centrifuge for PCR Strips and Microcentrifuge Tubes

Space- and energy-saving micro centrifuge with adequate power for routine centrifugations.

- speed 7000/min, max RCF 2680 x g
- lid must be closed for operation mode
- safety: the lid can only be opened when the rotor is not rotating
- rapid start and stop within seconds
- power supply AC100-240V/50Hz/60Hz
- diameter 150 mm, height 117 mm, weight 0.5 kg
- supplied complete with two rotors:
 - rotor 1 for: 8 microcentrifuge tubes 0.5 ml till 2.0ml
 - rotor 2 for: 16 microcentrifuge tubes 0.2 ml or two pcr strips of 8 tubes 0.2 ml

Product	Quantity per Pack	Order No.
Micro Centrifuge with two rotors	1	71 00 007

* The Polymerase Chain Reaction (PCR) is a patented process by Hoffmann-La Roche.



Cover Films for Micro Test and PCR* Plates



Cover Films

For micro test plates, deep-well blocks, micro test tubes and PCR plates.

- self-adhesive
- for manual operation
- temperature resistant from – 80 to + 120°C**
- adhesive with high solvent resistance, specially resistant against DMSO**
- all films of SBS standard format

1 Polyethylene peeling cover film

- low-cost film for polystyrene plates
- can be removed without any residues
- ideal for the storage of plates at room temperature

2 Aluminum universal cover film

- can be easily removed
- ideal for piercing
- for polystyrene and polypropylene plates
- also for use with micro-racks and critical PCR plates

3 Piercing-foil with cavity circle 96-well

- each cavity is marked by a circle and a numerical printing
- prepierced in each cavity optimizes opening by tip
- self closing film reduces the risk of cross-contamination

4 Gas permeable peeling film

- SBS-Standard
- liquid tight
- high permeability
- for use from -5°C to +60°C

Polypropylen peeling cover film

- can be removed without any residues and repeatedly used
- very suitable for PCR plates
- lower limit for photometer plates 276 nm

Further films on request.

Product	Fig. No.	Material	Packaging	Quantity per Pack	Order No.
polyethylene peeling cover film	1	PE	Pack 1 x 100	100	60 18 610
aluminum universal cover film	2	AL	Pack 1 x 100	100	60 18 611
piercing-foil with cavity circle 96-well	3	PP	Pack 1 x 100	100	60 18 619
gas permeable peeling film	4	PP	Pack 1 x 50	50	60 18 618
polypropylene peeling cover film	-	PP	Pack 1 x 100	100	60 18 612

PE = Polyethylene
AL = Aluminium
PP = Polypropylene

** except order number 60 18 610

* The Polymerase Chain Reaction (PCR) is a patented process by Hoffmann-La Roche.

