

The highest quality for precision analyses



# PCR products

H I G H - T E C H D I S P O S A B L E S

BRAND has significantly expanded its family of extra-thin-wall disposable products to meet the strict requirements of the polymerase chain reaction (PCR).

- **A convenient plate** for all current thermocyclers and sequencers
- **Blue cut corner markings** for easier orientation
- **Reinforced plate deck** for exceptional stability and smoothness
- **Free from DNases, DNA, and RNases, and endotoxins**
- **White PCR plates** are available for best results with quantitative real-time PCR



# PCR

## A variant for every application!

BRAND has significantly expanded its product range of extra-thin-wall disposable products, which were specially developed to satisfy the demands of PCR applications, particularly in 96-well PCR plates. Single tubes, strips of 8 and 12, and, for high sample throughput, PCR plates in 24-well, 48-well, 96-well and

384-well formats are available. Thus, there is an optimal product for every application. The plates and strips come in white for use in quantitative PCR. A rich selection of high-quality sealing media completes the portfolio. We offer the optimum product for any application.

### Features

- Suitable for use in common thermal cyclers
- PP, extra-thin uniform wall thicknesses to provide the optimal thermal transfer and short cycle times
- The high stability of the plates prevents warping during the temperature cycle
- 96-well PCR plates with blue alphanumeric code and cut corner marking
- Highly transparent flat covers optimally suited for qPCR
- High biocompatibility with no PCR inhibition
- DNase-, DNA-, RNase-free and endotoxins
- Autoclavable at 121 °C (2 bar), acc. DIN EN 285

## Cleanroom production



BRAND disposable items for the life sciences are produced using the most advanced cleanroom techniques in one of the world's largest cleanrooms for laboratory disposable items. Continuous cleanroom monitoring, together with precise control of environmental conditions, ensures a high level of temperature stability over the entire production area. This

uniformity, together with quality testing of the final product by batch, guarantees the consistently high quality of life science products from BRAND.

Depending on the desired usage environment for the final product, cleanroom conditions according to ISO 14644-1 (Classes 5, 7 and 8) are available for manufacturing.

# Real-Time PCR



## qPCR PCR Plates:


Plates that fit in quantitative Real-Time thermal cyclers, also available in white

## qPCR PCR Tubes:

Tubes with highly transparent caps for sensitive detection of fluorescence signals

## qPCR PCR Seals:

Seals, highly transparent for sensitive detection of fluorescence signals

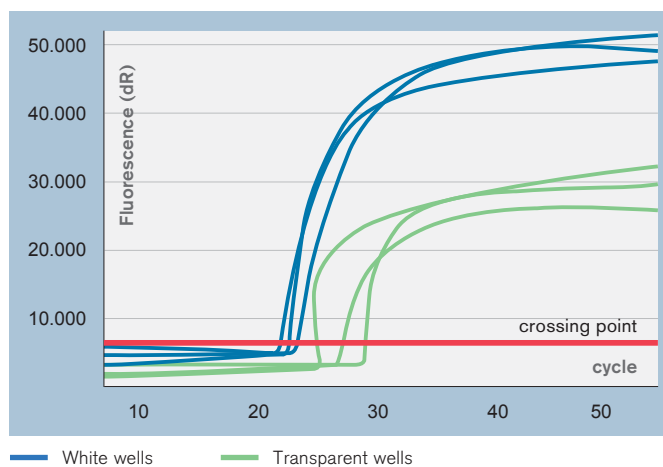
**Note!**  Autoclaves can be a source of contamination for disposable products.

The Polymerase Chain Reaction (PCR) is covered by international patents. Use of the PCR process may require a license.

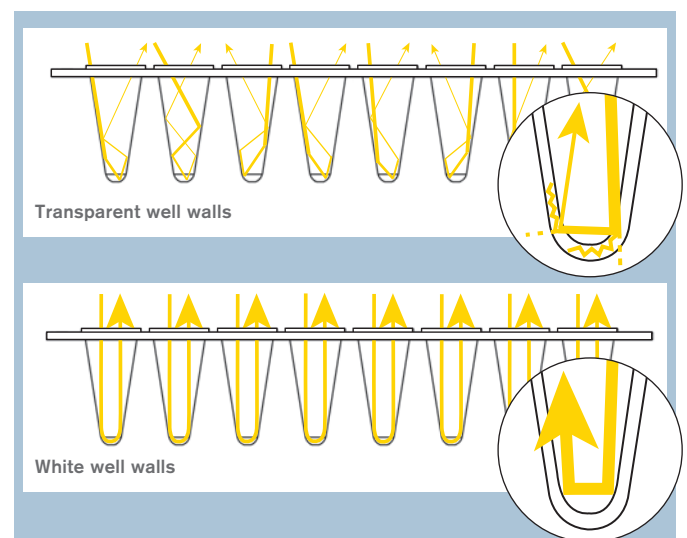
## PCR products in white

BRAND offers specially designed white PCR disposables for optimum results in quantitative PCR (qPCR). These white PCR plates and tubes offer the highest possible sensitivity and high-precision fluorescence detection.

Compared to conventional transparent plates, white PCR products maximize the reflection signal and permit measurement of even the smallest signals.



qPCR amplification of 100 ng, 10 ng, and 1 ng of human DNA, with white plates (blue lines) and clear plates (green lines). With white PCR products, the crossing point (cp) threshold is reached faster, and the measured fluorescence at endpoint is significantly greater.



White walls also protect the PCR products prior to signal transfer throughout the thermocycler block. Thus, measurements are unaltered and more precise.

# Single PCR tubes and strips



0.2 ml and 0.5 ml PCR tubes with attached caps are compatible with leading thermal cyclers with heated lids. Optimal sealing of the cap minimizes fluid loss through evaporation. The caps are easy to open and close

without tools, yet ensure a tight fit to reduce sample evaporation. The various colors of the PCR tubes allow fast sample classification.



domed cap

flat cap

## 0,2 ml and 0,5 ml

with attached caps

PP. Pack of 1000.

Capacity ml	Description	Color	Cat. No.
0,2	domed cap	clear	7813 00
0,2	flat cap	clear	7813 05
	flat cap	rose	7813 01
	flat cap	yellow	7813 02
	flat cap	green	7813 03
	flat cap	blue	7813 04
0,5	flat cap	clear	7813 10
	flat cap	rose	7813 11
	flat cap	yellow	7813 12
	flat cap	green	7813 13
	flat cap	blue	7813 14



## Strips of 8

with detached cap strips

PP. 8 connected 0.2 ml tubes. Separate, domed or flat caps are available in strips of 8. They are easy to open and close without tools. The tubes have a holding strap at one

end, and the cover strips on each cap have a small lip on the side for careful, contamination-free opening. Pack of 125 strips, 1000 vessels or caps, total.

Capacity ml	Color	Strips of 8 PCR tubes Cat. No.	Strips of 8 PCR caps domed Cat. No.	Strips of 8 PCR caps flat* Cat. No.
0.2	clear	7813 20	7813 40	7813 34
	rose	7813 21	7813 41	-
	yellow	7813 22	7813 42	-
	green	7813 23	7813 43	-
	blue	7813 24	7813 44	-
	white	7813 25	-	-

Pack of 250 strips each, 2000 tubes and 2000 caps, total.

Capacity ml	Color	Strips of 8 PCR tubes and strips of 8 PCR caps domed Cat. No.	Strips of 8 PCR tubes and strips of 8 PCR caps flat* Cat. No.
0.2	clear	7813 27	7813 26

\* flat caps suitable for Real-Time PCR

## Strips of 8 PCR tubes

### with attached flat individual caps

PP. 8 connected 0.2 ml or 0.15 ml tubes with attached, flat individual caps – ideal protection against contamination. The highly transparent cap makes them ideal for real-time PCR. Available in standard (0.2 ml) and low profile (0.15 ml) versions. Pack of 120 Strips, 960 vessels total.

Description	Volume ml	Color	Pack of	Cat. No.	
Standard	0.2	clear	120 strips per bag	7813 32	
Standard	0.2	white	120 strips per bag	7813 16	
Low profile	0.15	clear	120 strips per bag	7813 33	
Low profile	0.15	white	120 strips per bag	7813 17	

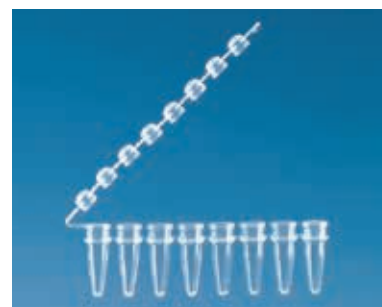


## Strips of 8 PCR tubes

### with attached cap strips

PP. 8 connected 0.2 ml tubes with attached cap strips. Domed caps facilitate one-handed operation. Pack of 125 strips, 1000 vessels, total.





Description	Volume ml	Color	Pack of	Cat. No.
Standard	0.2	clear	125 strips per bag	7813 30

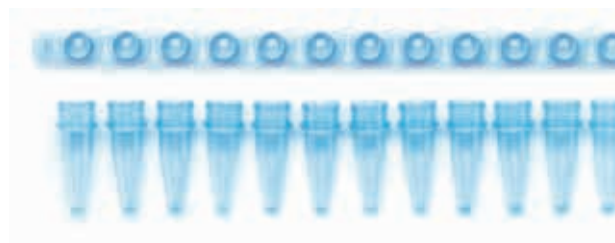



## Strips of 12

### with detached cap strips

PP. 12 connected 0.2 ml tubes. The of 12. They ensure a secure seal. Pack of separate domed caps are available in strips 125 strips, 1500 vessels or caps, total.

Capacity ml	Color	Strips of 12 PCR tubes Cat. No.	Strips of 12 PCR caps Cat. No.
0.2	clear	7812 80	7812 90
	 rose	7812 81	7812 91
	 yellow	7812 82	7812 92
	 green	7812 83	7812 93
	 blue	7812 84	7812 94



**Note!**  8- and 12-cap strips are also suitable for sealing PCR plates.

# q!PCR 24-well and 48-well PCR Plates

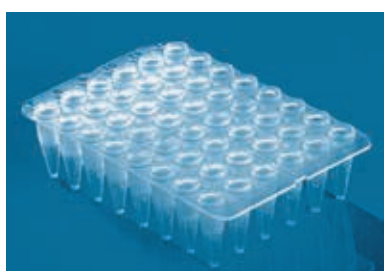
These plates reduce material costs and allow work on a compact PCR plate even with small sample throughputs. The plates are cut from standard 96-well PCR plates.



## 24-well, non-skirted

PP. 0.2 ml wells. Suitable for most commercially available thermal cyclers.


Description	Color	Pack of	Cat. No.
Standard profile, elevated rim	clear	40 (5 plates per bag)	7814 11
Standard profile, elevated rim	white	40 (5 plates per bag)	7814 12

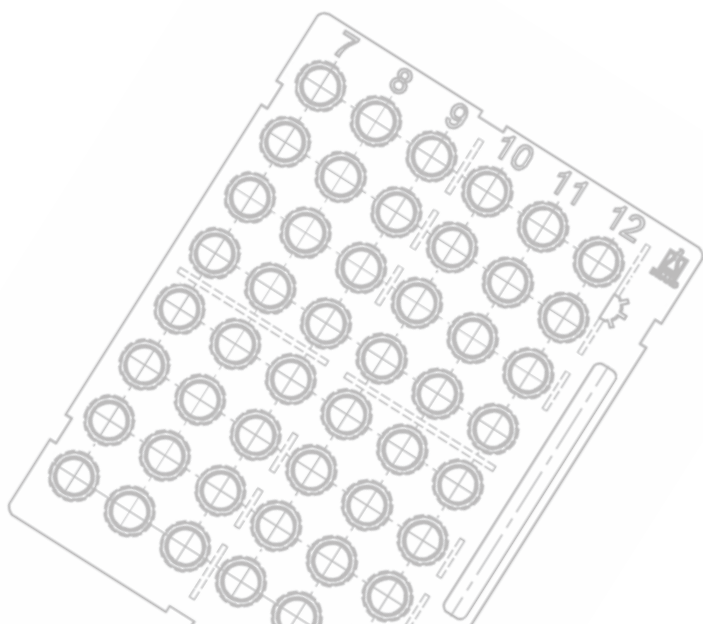


## 48-well, non-skirted

PP. 0.2 ml wells. Suitable for most commercially available thermal cyclers.

Description	Color	Pack of	Cat. No.
Standard profile, elevated rim	clear	20 (5 plates per bag)	7814 15
Standard profile, elevated rim	white	20 (5 plates per bag)	7814 16

**Note!**  To obtain the optimal plate format for a smaller number of samples, use commercial shears to cut them out from frameless PCR plates.



Standard profile, elevated rim

# qPCR 96-well PCR Plates

The ultra thin-walled PCR plate design facilitates constant, rapid and precise heat transfer. The smooth vessel interior minimizes the binding of enzymes and nucleic acid to the

walls. The rim of the wells are designed to protect against cross-contamination, allowing a reliable seal with the sealing mats tailored to the plates.

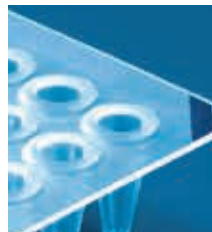


The use of Real-Time PCR (qPCR) is becoming increasingly widespread. In particular, the direct quantification of the DNA formed can be achieved by the use of fluorescence measurement. White PCR products by BRAND offer significantly better results in this application than transparent

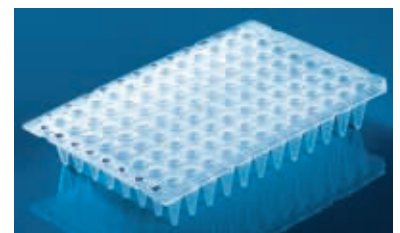
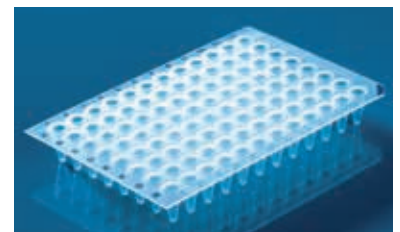
tubes. The different products in this line are uniformly colored with TiO<sub>2</sub> (titanium dioxide), so that in combination with the smooth surfaces, the optimum reflection of the fluorescence signal is provided.



The new 96-well plates from BRAND stand out with their blue alphanumeric coding!



The cut corner design simplifies orientation!

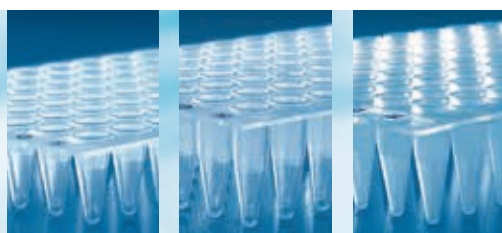


## 96-well, non-skirted

PP. 0.2 ml wells. 96-well non-skirted PCR plates are suitable for most commercially available thermal cyclers.

Description	Volume ml	Color	Cut corner	Pack of	Cat. No.
Low profile	0.15	clear	H12	50 (5 plates per bag)	<b>7813 66</b>
Low profile	0.15	white	H12	50 (5 plates per bag)	<b>7813 67</b>
Standard profile	0.2	clear	A12	50 (5 plates per bag)	<b>7813 68</b>
Standard profile	0.2	white	A12	50 (5 plates per bag)	<b>7813 69</b>
Standard profile, elevated rim	0.2	clear	H12	50 (5 plates per bag)	<b>7813 50</b>
Standard profile, elevated rim	0.2	white	H12	50 (5 plates per bag)	<b>7813 54</b>

\* no additional markings on the cut corner.

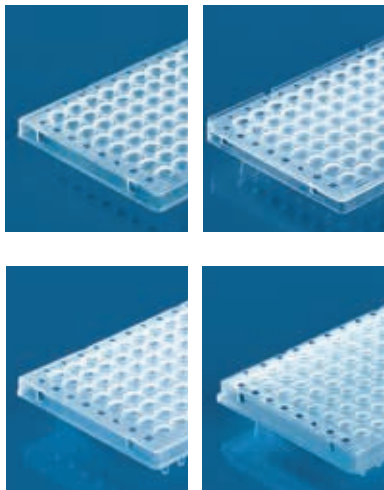


Low profile

Standard profile

Standard profile, elevated rim





## 96-well, semi-skirted

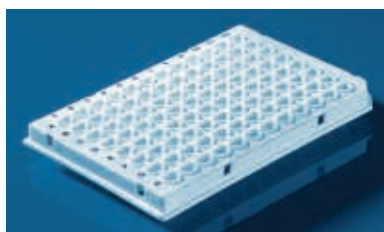
PP. 96-well semi-skirted PCR plates can easily be labeled or tagged with a barcode.

Description	Volume ml	Color	Cut corner	Pack of	Cat. No.
Low profile	0.15	clear	A12	50 (5 plates per bag)	<b>7813 71</b>
Low profile	0.15	white	A12	50 (5 plates per bag)	<b>7813 72</b>
Low profile, raised skirt	0.15	clear	A1	50 (5 plates per bag)	<b>7813 73</b>
Low profile, raised skirt	0.15	white	A1	50 (5 plates per bag)	<b>7813 74</b>
Standard profile	0.2	clear	A12	50 (5 plates per bag)	<b>7813 75</b>
Standard profile	0.2	white	A12	50 (5 plates per bag)	<b>7813 76</b>
Standard profile, elevated rim	0.2	clear	H12	50 (5 plates per bag)	<b>7814 00</b>
Standard profile, elevated rim	0.2	white	H12	50 (5 plates per bag)	<b>7813 57</b>

## 96-well, semi-skirted

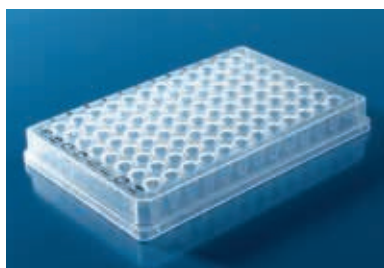
**Suitable for Roche® LightCycler® 480 and other thermal cyclers**

PP. 0.15 ml wells. Semi-skirted. With black self-adhesive sealing film (polyester, high-alphanumeric code. Available with or without transparent, for qPCR).



Description	Volume ml	Color	Cut corner	Pack of	Cat. No.
Low profile*	0.15	white	H12	50 (10 plates per bag)	<b>7813 64</b>
Low profile*	0.15	white	H12	50 (10 plates per bag) + 50 films for qPCR	<b>7813 65</b>

\* black alphanumeric code, no additional markings on the cut corner.



## 96-well, skirted

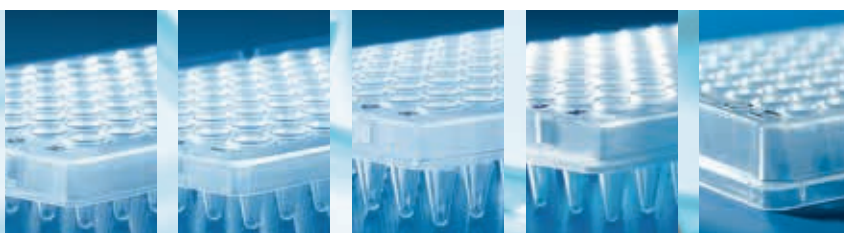
PP. 0.15 ml wells. 96-well skirted PCR plates are especially rigid, and are optimally suited for use with automatic pipetting systems and for being transported.

Description	Volume ml	Color	Cut corner	Pack of	Cat. No.
Low Profile*	0.15	clear	H1	50 (10 plates per bag)	<b>7813 77</b>
Low Profile*	0.15	white	H1	50 (10 plates per bag)	<b>7813 78</b>

\* black alphanumeric code, no additional markings on the cut corner.

## Strips of 8 PCR caps for 96-well PCR plates

Cap strips for PCR plates	Pack of	Cat. No.
PCR caps, flat, clear (for Cat. No. 7813 66-69, 7013 71-76)	125 strips	<b>7813 34</b>
PCR caps, domed, clear (for Cat. No. 7813 66-69, 7013 71-76)	125 strips	<b>7813 40</b>
PCR caps, flat, clear (for Cat. No. 7813 77-78)	300 strips	<b>7814 13</b>
PCR caps, domed, clear (for Cat. No. 7813 77-78)	300 strips	<b>7814 14</b>



Low profile, semi-skirted

Low profile, semi-skirted, raised skirt

Standard profile, semi-skirted

Standard profile, semi-skirted, elevated rim

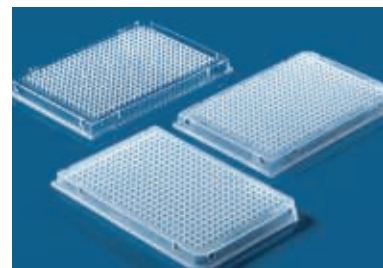
Low profile, skirted



# q!PCR 384-well PCR Plates

## 384-well, skirted

PP. The 40 µl wells can hold sample volumes of 2 µl to 30 µl. This helps to reduce reagent costs and shortens cycle times. The plates can be filled using multichannel pipettes or robotic systems.

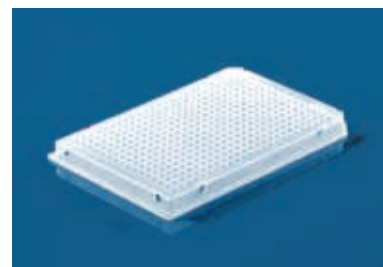


Description	Color	Cut corner	Pack of	Cat. No.
Skirted, PP	clear	A12, H12	50 (10 plates per bag)	<b>7813 45</b>
Skirted, PP	clear	A12	50 (10 plates per bag)	<b>7813 47</b>
Skirted, rigid plate	clear	A12	50 (10 plates per bag)	<b>7813 48</b>

## 384-well, skirted

**Suitable for Roche® LightCycler® 480 and other thermal cyclers**

PP. 0.03 ml tubes. The wells can hold sample volumes of 2 µl to 30 µl. This helps to reduce reagent costs and shortens cycle times. The plates can be filled using multichannel pipettes or robotic systems.



Description	Color	Cut corner	Pack of	Cat. No.
Skirted	white	A12, H12	50 (10 plates per bag)	<b>7813 58</b>

## Accessories PCR Plates

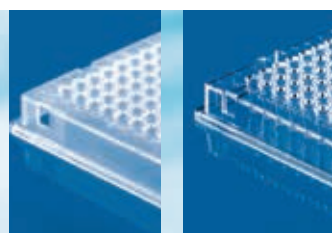
### Cap Tool

**For reliable sealing and opening of cover caps**

Caps are sealed tightly and securely using a special capping tool. The specially adapted lever enables safe, simple uncapping without splashing! Handy and lightweight material for fatigue-free operation.



Cat. No.	<b>7814 19</b>	Reliable capping	Splash-free uncapping
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PP, skirted

Rigid plate, skirted

# Thermal Cycler Compatibility

One glance at the table will tell you which BRAND PCR plates are compatible with your thermal cycler. We are continuously updating the table with information from manufacturers and feedback from our customers. Ask for a free sample of our PCR plates to check compatibility with your thermal cycler ([www.brand.de](http://www.brand.de)), with no obligation.

	non-skirted								semi-skirted				r. s. - s. *	skirted													
	7814 11	7814 12	7814 15	7814 16	7813 66	7813 67	7813 68	7813 69	7813 50	7813 54	7814 00	7813 57	7813 64	7813 71	7813 72	7813 75	7813 76	7813 73	7813 74	7813 77	7813 78	7813 45	7813 47	7813 48 starr	7813 58		
<b>white color</b>	x		x		x		x		x		x	x		x		x		x			x	x				x	
<b>number of wells</b>	24	48			96		96		96	96		96		96		96		96		96		384		384		384	384
<b>standard well</b>	x		x				x		x	x						x											
<b>low profile well</b>					x							x		x				x		x							
<b>cut corner</b>					H12		A12		H12	H12		H12		A12		A12		A1		H1		A12 + H12		A12		A12	A12 + H12
<b>APPLIED BIOSYSTEMS®</b>																											
2700	•		•					•							•							•		•		•	
3100	•		•					•							•							•		•		•	
3130	•		•					•							•							•		•		•	
3500								•							•							•		•		•	
3700	•		•					•							•							•		•		•	
3730/ 3730x	•		•					•							•							•		•		•	
9600	•		•					•		•					•							•		•		•	
9700	•		•					•		•					•							•		•		•	
9800 Fast																		•				•		•		•	
5700	•		•					•							•							•		•		•	
7000	•		•					•							•							•		•		•	
7300	•		•					•						•								•		•		•	
7500	•		•					•							•							•		•		•	
7700	•		•					•							•							•		•		•	
7900 HT																		•				•		•		•	
7500 Fast																		•				•		•		•	
Step One Plus																		•				•		•		•	
Veriti 0.2 ml																		•				•		•		•	
Veriti 0.1 ml																		•				•		•		•	
<b>AMERSHAM® Bioscience</b>																											
MegaBace® 500																					•						
MegaBace® 1000																					•						
MegaBace® 4000																					•		•		•		•
<b>BECKMAN®</b>																											
CEQ																					•						
MegaBace® 4000																					•		•		•		•
<b>BIOMETRA® Analytik Jena AG</b>																											
Uno	•		•		•		•		•		•		•		•		•		•		•		•		•		•
Uno II	•		•		•		•		•		•		•		•		•		•		•		•		•		•
T1 Thermal Cycler	•		•		•		•		•		•		•		•		•		•		•		•		•		•
Tgradient	•		•		•		•		•		•		•		•		•		•		•		•		•		•
Trobot	•		•		•		•		•		•		•		•		•		•		•		•		•		•
<b>BIORAD®/MJ RESEARCH®</b>																											
Genecycler																											
C1000	•		•		•		•		•		•		•		•		•		•		•		•		•		•
S100																											
PTC-200 DNA-Engine	•		•		•		•		•		•		•		•		•		•		•		•		•		•
PTC-220 DNA-Eng. Dyad	•		•		•		•		•		•		•		•		•		•		•		•		•		•
PTC-221 Dyad-Disciple	•		•		•		•		•		•		•		•		•		•		•		•		•		•
PTC-225 DNA-Tetrad	•		•		•		•		•		•		•		•		•		•		•		•		•		•
PTC-240 DNA-Tetrad 2																											
Base Station																											
iCycler	•		•				•		•						•						•						
MyCycler	•		•				•		•						•						•						
MyiQ	•		•				•		•						•						•						
iQ4																											
iQ5	•		•				•		•						•						•						
CFX96																											
Chromo 4																											
Opticon																											
Opticon 2																											
Opticon 4																											
<b>Corbett Research</b>																											
Palm Cycler 96																											
Palm Cycler 384																											
<b>Eppendorf®</b>																											
Mastercycler® Gradient	•		•				•		•		•		•		•		•		•		•		•		•		•
Mastercycler® ep	•		•				•		•		•		•		•		•		•		•		•		•		•
Mastercycler®																											
Mastercycler® M384																											
Mastercycler® ep Realplex																											
<b>Ericomp</b>																											
Single Block	•		•		•		•		•						•						•						
Twin Block	•		•		•		•		•						•						•						
Power Block																											
Delta Cycler	•		•		•		•		•						•						•						

\* r. s. - s. = raised skirt semi-skirted

continued



	non-skirted						semi-skirted				r. s. - s.*	skirted															
	7814 11	7814 12	7814 15	7814 16	7813 66	7813 67	7813 68	7813 69	7813 50	7813 54	7814 00	7813 57	7813 64	7813 71	7813 72	7813 75	7813 76	7813 73	7813 74	7813 77	7813 78	7813 45	7813 47	7813 48 starr	7813 58		
<b>white color</b>	x		x		x		x		x	x		x		x		x		x		x	x		x		x		x
<b>number of wells</b>	24	48	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	384	384	384	384	384	384	
<b>standard well</b>	x	x			x	x	x	x	x	x						x											
<b>low profile well</b>					x							x	x	x	x			x		x							
<b>cut corner</b>					H12	A12	H12			H12	H12	A12	A12	A1						H1	A12 + H12	A12	A12	A12	A12 + H12		
<b>Esco</b>																											
Swift																											
<b>Flexi</b>																											
Gene																											
Genius																											
<b>G-Storm</b>																											
GS1/ GS4/ GSX																											
<b>Thermo Hybaid</b>																											
Multi Block System																											
Omnigene																											
Omn-E																											
PCR-Express																											
PCR-Sprint																											
pxe																											
px2																											
Touchdown																											
<b>MWG®</b>																											
Primus 96																											
Primus 384																											
The Q LifeCycler																											
<b>PEQLAB®</b>																											
PeqStar 96																											
<b>Roche®</b>																											
LightCycler® 480																											
<b>STRATAGENE®</b>																											
Robocycler																											
Robocycler Gradient																											
Mx 3000																											
Mx 3000 P																											
Mx 3005 P																											
Mx 4000																											
<b>TaKaRa®</b>																											
TP2400																											
TP3000																											
<b>TECHNE®</b>																											
TC-412																											
Flexigene																											
Genius																											
Genius Quad																											
TC-512																											
Touchgene Gradient																											
Touchgene X																											
TC-3000X																											
Quantica																											
Cyclogene																											
<b>TRANSGENOMIC®</b>																											
Wave System																											

\* r. s. - s. = raised skirt semi-skirted

Stand: 0914

● = compatible    - = not compatible    □ = no information

The following brands and trademarks as referenced in the current table are property of their respective third-party owners as listed below:

**Referenced brand/trademark    Owner**

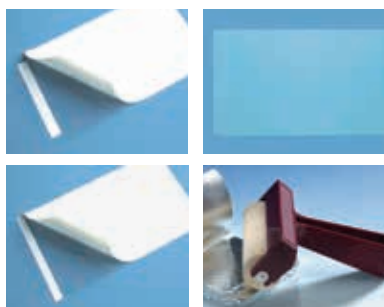
AMERSHAM®    GE HEALTHCARE LIMITED, GB  
 APPLIED BIOSYSTEMS®    Applied Biosystems LLC, USA  
 BECKMAN®    Beckman Coulter, Inc., USA  
 BIOMETRA®    Biometra Biomedizinische Analytik GmbH, Deutschland  
 BIORAD®    BIO-RAD LABORATORIES GMBH, Deutschland  
 Eppendorf®    Eppendorf AG, Deutschland  
 LightCycler®    Roche Diagnostics GmbH, Deutschland  
 Mastercycler®    Eppendorf AG, Deutschland  
 MegaBace®    GE Healthcare Bio-Sciences AB, GB

**Referenced brand/trademark    Owner**


MJ RESEARCH®    BIO-RAD LABORATORIES, INC., USA  
 MWG®    MWG BIOTECH AG, Deutschland  
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 Roche®    F. Hoffmann-La Roche AG, Schweiz  
 STRATAGENE®    Agilent Technologies, Inc., USA  
 TaKaRa®    TAKARA SHUZO CO., LTD., Japan  
 TECHNE®    TECHNE INCORPORATED, USA  
 TRANSGENOMIC®    Transgenomic, Inc., USA

# Accessories

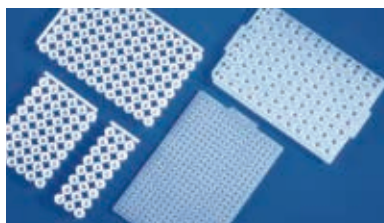
## PCR sealing films, self-adhesive



In case the PCR plates need not only to be covered, but also securely sealed, self-adhesive sealing films are available. These film sheets can be easily applied on the plates and removed without the use of expensive equipment.

Application	Description	Material	Pack of	Cat. No.
for ELISA, PCR	Single film	PP	100 sheets	<b>7813 90</b>
for ELISA, Real-Time PCR (qPCR)	Single film	 Polyester	100 sheets	<b>7813 91</b>
for storage, ELISA PCR	Single film	PP	100 sheets	<b>7813 67</b>
Roller, hard rubber. For simple, even pressure of self-adhesive films.			1	<b>7013 80</b>

## PCR sealing mats



PCR sealing mats have been designed to fit conventional systems. They are characterized by their high flexibility, tight sealing, autoclavability and are easily pierced by pipette tips.

Product	Material	Pack of	Cat. No.
24-well mat (for Cat. No. 7814 11-12)	TPE	10	<b>7814 02</b>
48-well mat (for Cat. No. 7814 15-16)	TPE	10	<b>7814 03</b>
96-well mat (for all 96-well plates except 7813 77-78, -64)	TPE	5	<b>7814 05</b>
384-well mat (for Cat. No. 7813 45, 7813 47)	silicone*	10	<b>7814 08</b>

\* autoclavable five times

## PCR-Box/-Rack

### As sorted colors (red, yellow, green, purple, blue)



PP. Suitable for sample preparation, for keeping and storing 0.2 ml single tubes, 8-strips, and 12-strips, and 96-well PCR plates. These racks can also be stacked without lids. Withstand temperatures from -80 to +121 °C. Pack of 5.

Cat. No.	<b>7813 62</b>	
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## PCR Mini cooler

### with transparent lid



PP. For protecting samples from warming. The mini PCR cooler keeps samples at 4 °C for approximately 3 hours. The insulating gel changes from violet to pink at 7 °C. Suitable for 0.2 ml single tubes, 8-strips, and 12-strips, as well as 96-well PCR plates. Pack of 2.

Cat. No.	<b>7812 60</b>
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BRAND GMBH + CO KG · P.O. Box 11 55 · 97861 Wertheim · Germany  
Tel.: +49 9342 808-0 · Fax: +49 9342 808-98000 · E-Mail: info@brand.de · Internet: www.brand.de

