

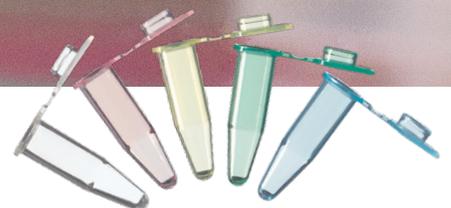
# PCR products



Cleanroom quality for reliable results.

Suitable for all standard thermal cyclers.

Optimal protection from evaporation and contamination.



**BRAND. For lab. For life.**

# PCR products

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

- 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, RNases, and endotoxins
- White PCR plates are available for best results with quantitative real-time PCR

## A design for every application!

BRAND has significantly expanded its product range of extra-thin-wall disposable products, specially developed to satisfy the demands of PCR applications, particularly in 96-well PCR plates. Single tubes, strips of 8 and 12, and high sample throughput PCR plates in 24-well, 48-well, 96-well and 384-well formats are available. 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 materials 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 thermal cycling
- 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
- Free of DNase-, DNA-, RNase and endotoxins
- Autoclavable at 121 °C (2 bar), acc. DIN EN 285

## Cleanroom quality



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 14 644-1 (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

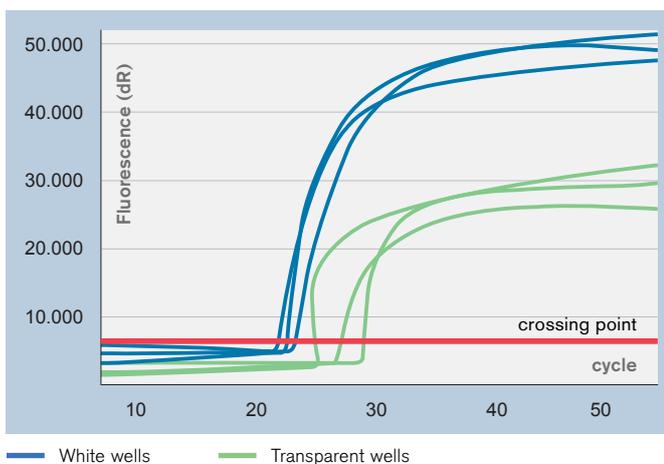
**Note!**  Autoclaves can be a source of contamination for disposable products.

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

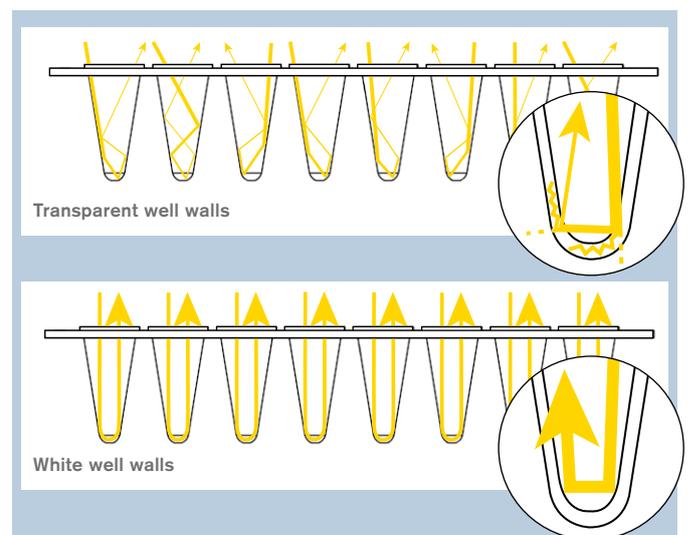
## PCR products in white

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.



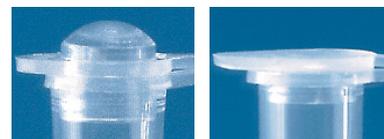
White walls also protect the PCR products prior to signal transfer throughout the thermocycler block. Thus, measurements are unaltered and more precise.

# 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 handle 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

**Note!** 8-cap strips are also suitable for sealing 24-, 48- and 96-well PCR plates.

## 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. Thanks to a single connector,

the strips can easily be shortened to the individually required length by twisting them. 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	
Low profile	0,15	clear	120 strips per bag	7813 33	

## Strips of 8 PCR tubes

### with attached flat individual caps, 3 connectors

PP. The 8 connected 0.2 ml or 0.15 ml PCR tubes are held together by three connectors for increased rigidity. The attached flat individual caps protect the samples against

contamination. The highly transparent caps make the PCR strips suitable for real time PCR. Available in Standard and Low profile versions.



Description	Volume ml	Color	Pack of	Cat. No.	
Standard	0,2	clear	120 strips per bag	7813 15	
Standard	0,2	white	120 strips per bag	7813 16	
Low profile	0,15	clear	120 strips per bag	7813 18	
Low profile	0,15	white	120 strips per bag	7813 17	

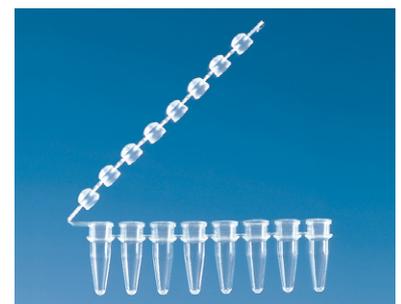
## Strips of 8 PCR tubes

### 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 separate domed caps are available in strips

of 12. They ensure a secure seal. Pack of 80 strips, 960 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



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

These plates reduce material costs and facilitate the easy handling of a 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	clear	40 (5 plates per bag)	<b>7814 11</b>
Standard profile	white	40 (5 plates per bag)	<b>7814 12</b>



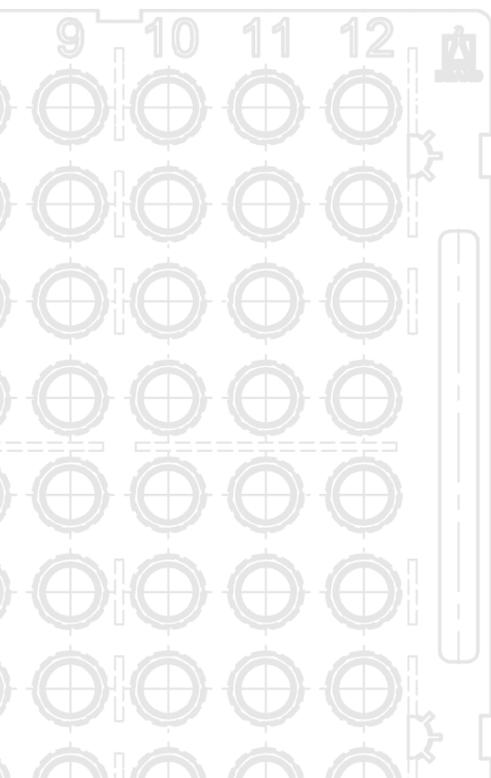
## 48-well, non-skirted

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

Description	Color	Pack of	Cat. No.
Standard profile	clear	20 (5 plates per bag)	<b>7814 15</b>
Standard profile	white	20 (5 plates per bag)	<b>7814 16</b>

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

**Note!**  24- and 48-well PCR plates in Standard and Low profile version can be sealed with strips of 8 PCR caps – Cat. No. 7813 40 - 7813 44 and 7813 34.



# 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.

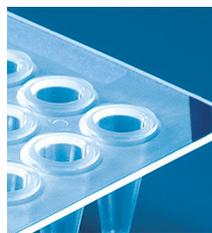


The use of Real-Time PCR (qPCR) is becoming increasingly widespread. It makes possible the direct quantification of the DNA formed by the use of fluorescence measurement. White PCR products by BRAND offer significantly better results in this application than transparent tubes. The

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!



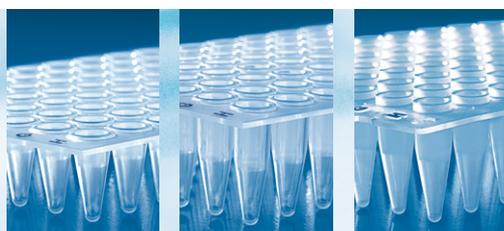
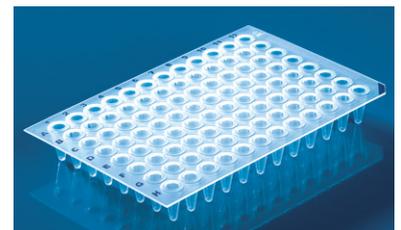
The cut corner design simplifies orientation!

## 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.

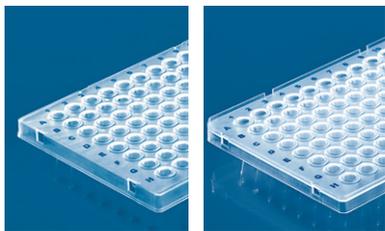


Low profile

Standard profile

Standard profile, elevated rim

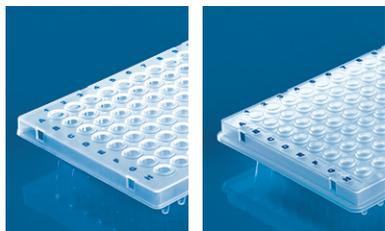




## 96-well, semi-skirted

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 embossed alphanumeric code. Available with or without pressure-dependent self-adhesive sealing film (polyester, highly -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>

\* embossed alphanumeric code, no additional markings on the cut corner.  
\*\* film 7813 91

## 96-well, skirted

PP. 0.15 ml wells. 96-well skirted PCR plates are especially rigid, and are optimally suited for use with automated pipetting systems and plate handling.



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.

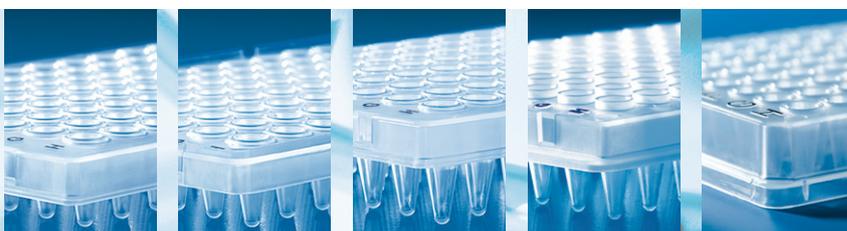
### Note!

24- and 48-well PCR plates in Standard and Low profile version can be sealed with strips of 8 PCR caps – Cat. No. 7813 40 - 7813 44 and 7813 34.

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

Strips of 8 PCR cap, clear, flat or domed for sealing skirted PCR plates (781377, 781378). PP, free of DNase/RNase, RNA.

Cap strips for PCR plates	Pack of	Cat. No.
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

## 96-well PCR packs PCR plates and qPCR sealing films

These practical PCR sets each consist of 50 BRAND PCR plates and 50 qPCR sealing films. The combination of matched plates and films considerably reduces evaporation loss.

Description	Volume ml	Cut corner	Original Cat. No.	PCR-Set Cat. No.
<b>Set 1:</b> non-skirted, Low profile	0.15	H12	7813 66	<b>7812 30</b>
<b>Set 2:</b> non-skirted, Standard	0.2	A12	7813 68	<b>7812 31</b>
<b>Set 3:</b> semi-skirted, Low profile	0.15	A12	7813 71	<b>7812 32</b>
<b>Set 4:</b> semi-skirted, Low profile, raised skirt	0.15	A1	7813 73	<b>7812 33</b>
<b>Set 5:</b> semi-skirted, Standard	0.2	A12	7813 75	<b>7812 34</b>

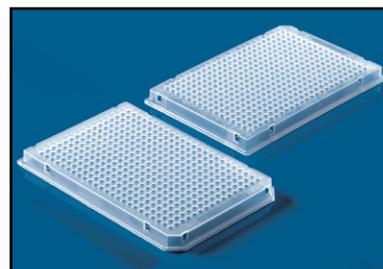


## qPCR 384-well PCR Plates

### 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	A24, H24	50 (10 plates per bag)	<b>7813 45</b>
Skirted, PP	clear	A24	50 (10 plates per bag)	<b>7813 47</b>

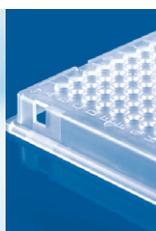
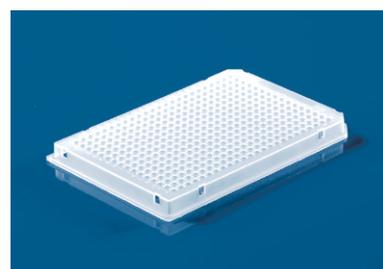


### 384-well, skirted

#### 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	A24, H24	50 (10 plates per bag)	<b>7813 58</b>



PP, skirted





# 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	Polyester	100 sheets	<b>7813 90</b>
for ELISA, PCR (qPCR)	Single film	Polyester	100 sheets	<b>7813 91</b>
for storage, ELISA, PCR	Single film	PP	100 sheets	<b>7013 67</b>
for storage, PCR	Foilstrips	Aluminium	50 sheets of 6 strips	<b>7813 82</b>
for storage, PCR (qPCR)	Filmstrips	Polyester	50 sheets of 8 strips	<b>7813 83</b>
Application spatula for sealing films			2 pieces	<b>7013 81</b>



## 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.** 7814 19

Reliable capping

Splash-free uncapping

## PCR-Box/-Rack

### Assorted 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.** 7813 62



## 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.** 7812 60



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