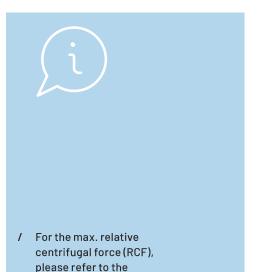
### REACTION TUBES / ANALYSER CUPS

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technical appendix.

# REACTION TUBES ANALYSER CUPS

Reaction tubes from Greiner Bio-One are available in many different versions. They have a high chemical and temperature resistance and are available from 0.5 ml to 5 ml for small and medium volumes. The reaction tubes are made of high-quality polypropylene and are available with or without lid. The lids of the corresponding vessels are flat and frosted to ensure easy labelling.

Brown reaction tubes have been specially developed for working with light-sensitive sample material. For working with liquid volumes from 1 to 5 ml, Greiner Bio-One offers 5 ml reaction tubes with screw cap

or snap cap. The tubes are also made of highly transparent polypropylene and allow contamination-free access when pipetting medium sample volumes. They also have a frosted, writable surface. This ensures reliable sample identification in everyday laboratory work.

Analyser cups are available with conical or flat bottom design and with or without cap. All analyser cups are manufactured of highly transparent polystyrene. The volumes range from 1.7 ml up to 25 ml. We offer analyser cups that are suitable for the analytical systems of Hitachi or Coulter/Hycel.

- / For volumes from 0.5 ml up to 5 ml
- / With or without cap
- / With or without graduation



#### **Reaction Tubes**

- / High chemical resistance and temperature tolerance
- Flat, frosted lids and caps for easy labelling
- Brown tube for light-sensitive materials

Description: reaction tube

Item no.	Feature	Support skirt	Graduation	Product colour	Volume range	Caps attached	Cap design	Qty. inner / outer
667201	Vitatron		_	○natural	≤0.5 ml	yes	snap cap	1,000 / 10,000
616201	universal		yes	natural	≤1.5 mI	yes	snap cap	500 / 4,000
616283	universal		yes	● brown	≤1.5 mI	yes	snap cap	500 / 4,000
623201	universal		yes	natural	≤2 ml	yes	snap cap	500 / 4,000
618201		no	-	○natural	≤1.5 mI	no	-	500/3,000
716201		no	yes	natural	≤1.5 mI		screw cap	500 / 5,000
717201		yes	yes	○natural	≤1.5 mI		screw cap	500/5,000
722201		yes	yes	natural	≤2 ml		screw cap	500/5,000

 $\textit{I} \quad \texttt{Coloured versions of item} \ \texttt{no.616201} \ \texttt{and} \ \texttt{623201} \ \texttt{as well as sterile versions of all tubes} \ \texttt{are available on request.}$ 



#### Reaction Tubes 5 ml

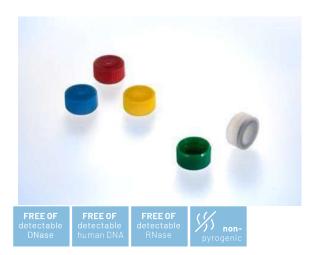
5 ml reaction tubes with either a snap cap for fast opening and closing or a screw cap for secure sample storage.

- Outer diameter and shape similar to 15 ml tube
- Resealable packaging

Description: reaction tube, Support skirt: no, Graduation: yes, Raw material: PP

Item no.	Product colour	Cap colour	Caps attached	Cap design	Sterile	Qty. inner / outer
725201	○ natural	blue		screw cap		100/500
725261	natural	<ul><li>blue</li></ul>		screw cap	+	50 / 500

Item no.	Product colour	Cap colour	Caps attached	Cap design	Sterile	Qty. inner / outer
622201	○ natural		yes	snap cap		100 / 1,000
622261	onatural on the same of the sa		yes	snap cap	+	100 / 1,000



#### Closures for Reaction Tubes

- / Suitable for item no. 716XXX, 717XXX and 722XXX
- / Available in natural, red, blue, green and yellow
- / With gasket

 $\textit{Description: screw cap, Feature: with sealing ring, Suitable for tubes $\emptyset$: 12 mm, Cap design: screw cap}$ 

Item no.	Product colour	Qty. inner / outer
366380	○ natural	500 / 5,000
366383	● red	500 / 5,000
366384	<ul><li>blue</li></ul>	500 / 5,000
366385	● green	500 / 5,000
366386	yellow	500 / 5,000



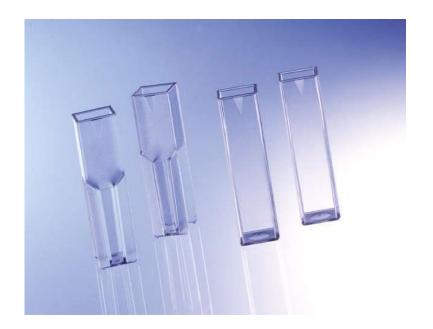
#### Analyser Cups

- / For handling and analysis of chemical and biological samples
- / Available for different analytical systems

Description: analyser cup, Raw material: PS, Caps attached: no

Item no.	Feature	Support skirt	Bottom shape	Volume range	Lid type	Qty. inner / outer
668102	Coulter / Hycel	no	flat	≤25 ml	with lid	250 / 1,250
729101	Hitachi	yes	conical	≤1.7 mI	without lid	250 / 5,000







For further information, please refer to our website: www.gbo.com



#### SEMI-MICRO / MACRO CUVETTE

Cuvettes are used for UV/VIS spectroscopy. Greiner Bio-One offers semi-micro cuvettes with a total volume of 1.6 ml and macro cuvettes with a total volume of 4 ml. Both versions are made of crystal-clear polystyrene and are particularly suitable for enzymatic determinations, as the

very thin wall thickness enables fast and even temperature control. Our cuvettes are characterised by their low light scattering combined with a high transmission rate. Semi-micro and macro cuvettes can be used in a wavelength range from 340 nm to 900 nm.

- Available as semi-micro or macro cuvettes
- / Very thin walls for fast and even temperature control
- / Low light scattering and high transmission rate
- Suitable for a wavelength range from 340-900 nm



#### Semi-micro / Macro Cuvette

- / Ideal for enzymatic determinations
- / Manufactured from crystal clear polystyrene
- / Minimal light scatter but high transmission rate
- / Applicable wavelength from 340 to 900 nm

Height: 45 mm, Length: 12.5 mm, Width: 12.5 mm, Pathlength: 10 mm, Raw material: PS

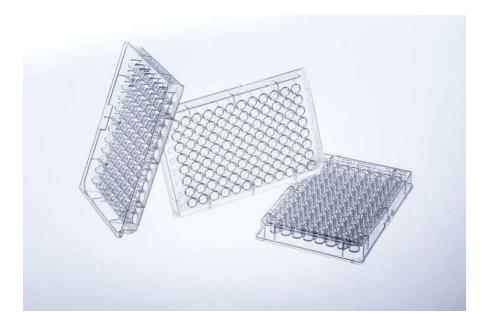
Item no.	Description	Working volume	Total volume	Qty. inner / outer
613101	semi-micro cuvette	≥0.95 ml	1.6 ml	100 / 1,000
614101	macro cuvette	≥2.5 ml	4 ml	100 / 1,000

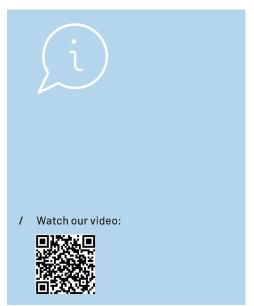


The ELISA technique (Enzyme-Linked Immunosorbent Assay) is one of the most widely used biochemical methods in analytical laboratories and in diagnostics. With this method, analytes such as peptides, proteins, antibodies and hormones are detected and quantified selectively and in low concentrations. In addition, ELISAs can be automated and carried out with a high sample throughput, are relatively inexpensive and the test results are available promptly.

### IMMUNOLOGY / HLA

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#### ELISA MICROPLATES

Greiner Bio-One has been manufacturing microplates for diagnostics and immunological research for over 30 years.

The microplate footprint is compatible with automated systems. A key step in ELISA is the binding of one assay component – antigen or antibody – to the solid surface by passive adsorption. Therefore, the features of this surface are crucial for the performance of the assay. All ELISA microplates from Greiner Bio-One are made out of

high-quality virgin polystyrene. The resin is highly transparent and therefore ideally suited for optical measurements.

Beside products made of clear polystyrene for colorimetric measurements, Greiner Bio-One offers a wide variety of black and white ELISA microplates for luminescence and fluorescence measurements.

The quality of our immunological products is constantly controlled in our quality assurance laboratory by means of ELISA.

- / With U-Bottom / V-Bottom / F-Bottom standard (ST) / F-bottom chimney well /half area well geometry
- / With medium and high-binding surfaces
- / Made of clear / black / white polystyrene for transmission, fluorescence or luminescence measurements

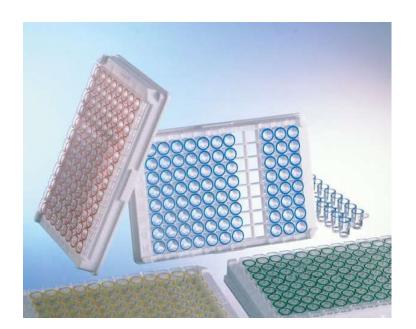


## 96 Well ELISA Microplates U-Bottom / V-Bottom / F-Bottom / Half

/ Manufactured from crystal clear polystyrene

Well format: 96, Bottom: solid, Raw material: PS, Lid: no

Item no.	Well profile	Binding characterisitc	Binding brand name	Product colour	Plate design	Working volume (well)	Qty. inner / outer
650001	U-bottom	med. binding	MICROLON 200	○ clear		40 µl - 280 µl	10 / 40
650061	U-bottom	high-binding	MICROLON 600	○ clear		40 μΙ - 280 μΙ	10 / 40
651001	V-bottom	med. binding	MICROLON 200	○ clear		40 µl - 200 µl	10 / 40
651061	V-bottom	high-binding	MICROLON 600	○ clear		40 µl - 200 µl	10 / 40
655001	F-bottom/ ST	med. binding	MICROLON 200	○ clear		25 μΙ - 340 μΙ	10 / 40
655061	F-bottom/ ST	high-binding	MICROLON 600	○ clear		25 μΙ - 340 μΙ	10 / 40
655080	F-bottom / Chimney Well	med. binding	MICROLON 200	○ clear		25 μΙ - 340 μΙ	10 / 40
655081	F-bottom / Chimney Well	high-binding	MICROLON 600	○ clear		25 μΙ - 340 μΙ	10 / 40
675001	F-bottom	med. binding	MICROLON 200	○ clear	half area	15 μΙ - 175 μΙ	10 / 40
675061	F-bottom	high-binding	MICROLON 600	○ clear	half area	15 μΙ - 175 μΙ	10 / 40





#### **ELISA STRIP PLATES**

Greiner Bio-One is offering a large variety of 96 well strip microplates for diagnostic and immunological research applications.

Microplates in strip format offer the advantage of greater flexibility in diagnostics. Individual strips can be removed from the support frame so that the number of tests to be performed can be adjusted to the number of samples and is not predetermined by the microplate format used. In addition, the individual strips can be subjected to a wide variety of different test conditions. The quality of our immunological products is constantly

controlled in our quality assurance laboratory by means of ELI-SA. Clear MICROLON products are tested in a colorimetric immunoassay, black FLUOTRAC plates in a fluorescence immunoassay, white LUMITRAC plates in a luminescence immuno assay. The portfolio is completed by C8 single-break strip plates for immunological applications. These are supplied as twelve 8-well strips in a support frame with 96 spaces (12 x 8 matrix). The individual wells can be broken off separately ("single-break" option) and the number of tests performed can thus be precisely adjusted to the number of samples.



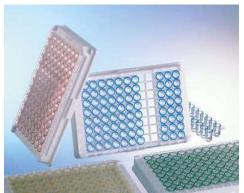
#### 96 Well ELISA Strip Plates

- / Strips mounted in frame
- / Black and white F16 and U16 strip plates on request

Well format: 96, Bottom: solid, Raw material: PS, Lid: no

Item no.	Well profile	Binding characterisitc	Binding brand name	Product colour	Plate design	Working volume (well)	Oty. inner / outer
767070	U-bottom	med. binding	MICROLON 200	○ clear	strip plate 12x8	50 µl - 280 µl	10 / 100
767071	U-bottom	high-binding	MICROLON 600	○ clear	strip plate 12x8	50 µl - 280 µl	10 / 100
762070	F-bottom	med. binding	MICROLON 200	○ clear	strip plate 12x8	20 μΙ - 350 μΙ	10 / 100
762071	F-bottom	high-binding	MICROLON 600	○ clear	strip plate 12x8	20 μΙ - 350 μΙ	10 / 100
762075	F-bottom	med. binding	LUMITRAC 200	○white	strip plate 12x8	20 µl - 350 µl	10 / 100
762074	F-bottom	high-binding	LUMITRAC 600	○white	strip plate 12x8	20 μΙ - 350 μΙ	10 / 100
762076	F-bottom	med. binding	FLUOTRAC 200	● black	strip plate 12x8	20 μΙ - 350 μΙ	10 / 100
762077	F-bottom	high-binding	FLUOTRAC 600	● black	strip plate 12x8	20 μΙ - 350 μΙ	10 / 100
756070	F-bottom	med. binding	MICROLON 200	○ clear	strip plate 6x18	20 µl - 350 µl	10 / 100
756071	F-bottom	high-binding	MICROLON 600	○ clear	strip plate 6x18	20 μΙ - 350 μΙ	10 / 100
754070	U-bottom	med. binding	MICROLON 200	○clear	strip plate 6x18	50 µІ - 280 µІ	10 / 100
754061	U-bottom	high-binding	MICROLON 600	○ clear	strip plate 6x18	50 µl - 280 µl	10 / 100









#### Single-break Strip Plates

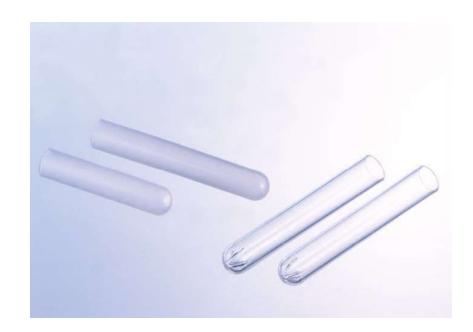
- / Clear with / without colour coding
- / Strips mounted in frame
- C8 Single-break strip plates without colour coding cell culture treated on request

Well format: 96, Well profile: C-bottom, Bottom: solid, Raw material: PS, Plate design: strip plate 12x8, Working volume (well): 20 μl - 300 μl, Lid: no

Item no.	Binding characterisitc	Binding brand name	Colour stripe	Colour coding well rim	Qty. inner / outer
705070	med. binding	MICROLON 200	○ clear		10 / 100
705071	high-binding	MICROLON 600	○ clear		10 / 100
705063	med. binding	MICROLON 200	○ clear	● red	10 / 100
705073	high-binding	MICROLON 600	○ clear	● red	10 / 100
705074	high-binding	MICROLON 600	○ clear	blue	10 / 100
705065	med. binding	MICROLON 200	○ clear	● green	10 / 100
705075	high-binding	MICROLON 600	○clear	● green	10 / 100
705066	med. binding	MICROLON 200	○ clear	yellow	10 / 100
705076	high-binding	MICROLON 600	○clear	yellow	10 / 100



/ More tubes can be found in the chapter Tubes / Multipurpose containers



### **IMMUNO TUBES**

Immuno tubes are often used for determining hormone levels, for example TSH (thyroid stimulating hormone). With a length of 75 mm and a diameter of 12 mm with and without a "star", they are available in both MICROLON 200 and MICROLON 600 quality. The so-called "star" at the bottom of

the tubes serves to increase the surface and thus makes it possible to bind larger amounts of antigens or antibodies.

The quality of our immunological products is constantly controlled in our quality assurance laboratory by means of ELISA.





#### Immuno Tubes

/ More tubes can be found in the chapter Tubes / Multipurpose containers



Height: 75 mm, Ø: 12 mm, Raw material: PS, Nominal volume: 5 ml

Item no.	Binding characterisitc	Binding brand name	Bottom shape	Qty. inner / outer
115001	med. binding	MICROLON 200	round	250/2.000
115061	high-binding	MICROLON 600	round	250 / 2.000
115070	med. binding	MICROLON 200	round with star	250 / 2.000
115071	high-binding	MICROLON 600	round with star	250 / 2.000



/ We provide Terasaki plates with one years' stability on the surface treatment.



#### TERASAKI PLATES

Greiner Bio-One Terasaki plates are suitable for all applications for serological determination of HLA antigens. The plates are supplied either with 60 or 72 wells, the plate dimensions stay the same.

The human leucocyte antigen (HLA) system is the major histo-compatibility complex (MHC) of humans and is composed of the two polymorphic classes HLA-I (A, B, and C) and HLA-II (DR, DQ, and DP). Basically, four different areas of indication can be distinguished for HLA typing: transplantation, transfusion, disease association and

forensic.

The serological determination of HLA proteins of the HLA-A, -B, -C and -DR genetic positions is primarily performed with the complement-dependent microlymphocytotoxicity test(LCT) or Terasaki test, which has been standardised since 1964. The basis for this test method is the cytolysis of the lymphocytes to be tested, which is caused by the antibody-antigen mediated activation of the complement system. Permeabilised lymphocytes are generally stained with chromophores or fluorophores and evaluated microscopically.



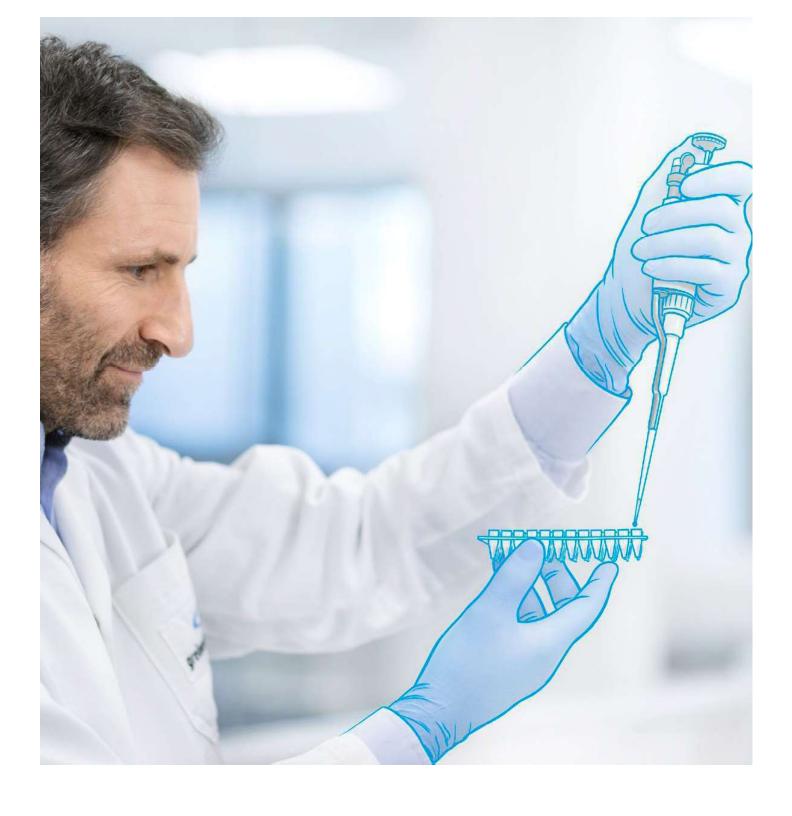
#### Terasaki Plates

- / 60 well and 72 well Terasaki plates
- / Manufactured from crystal clear polystyrene
- / Item 659180 contains one lid per bag



Surface treatment: TC, Well volume, max: 11.5  $\mu$ l, Working volume (well):  $\leq$ 10  $\mu$ l, Lid: yes

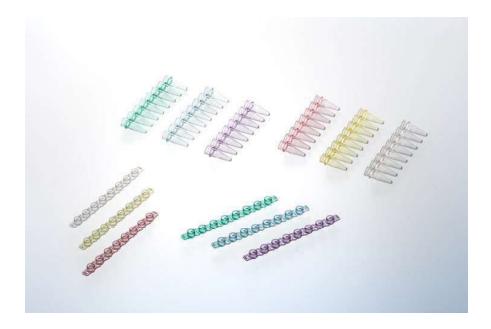
Item no.	Well format	Stackable	Qty. inner / outer	
653180	60	no	10 / 270	
653190	60	no	120 / 480	
659180	60	yes	10 / 200	
659190	60	yes	150 / 1,200	
654180	72	no	10 / 270	
769190	72	yes	150 / 1.200	



PCR (Polymerase Chain Reaction) is an important molecular biological method to determine processes in living organisms at the molecular level or genetic changes in the genetic material. It is used for the detection of diseases and parentage relationships as well as in forensics.

## **MOLECULAR BIOLOGY**

/	Sapphire PCR Tubes228
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	PCR 8-Tube Strips230
	Sapphire PCR 8-Cap Strips231
/	Sapphire PCR Microplates232
	96 Well PCR Microplates233
	384 Well PCR Microplates233





For standard reaction tubes please refer to chapter reaction tubes / analyser cups.

# **SAPPHIRE** PCR TUBES

The Sapphire PCR tube portfolio comprises a full range of PCR reaction tubes (0.2 ml and 0.5 ml) as well as PCR 8-tube strips and the matching 8-cap strips.

The thin wall construction optimises the heat transfer from the block to the reaction solution. PCR tubes with flat caps are suitable for real-time / quantitative PCR and have frosted caps for easy labelling.

The classical Sapphire PCR 8-tube strips are also available

with individually attached caps. The angular attached domed or flat caps can be closed and opened individually minimising the risk of cross contamination. Moreover, individual closing and opening helps to avoid pipetting errors and facilitates sample processing.

PCR 8-tube strips are also available as **low profile tubes** with a well volume of 0.1 ml ideal for FAST, standard and real-time PCR supporting the reduction of cycle time without compromises in accuracy and efficiency.

- / Manufactured out of medical-grade polypropylene without interfering additives
- / Thin-walled for efficient heat transfer during amplification
- / Comprehensive thermal cycler compatibility



#### **PCR Tubes**

Tubes with flat caps are suitable for realtime/ quantitative PCR and have frosted caps for easy labelling.

/ Packaging labelled with product symbols

Description: PCR tubes, Raw material: PP

Item no.	Product colour	Volume	Volume range	Caps attached	Cap design	Lid type	Qty. inner / outer
671201	○ natural	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671273	● red	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671274	blue	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671275	● green	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671276	yellow	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671277	■ violet	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
671281	sorted	0.2 ml	≤0.2 ml	yes	individually attached	domed	1,000 / 10,000
683201	onatural	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683273	● red	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683274	blue	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683275	● green	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683276	yellow	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683277	■ violet	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
683271	sorted	0.2 ml	≤0.2 ml	yes	individually attached	flat	1,000 / 10,000
682201	○ natural	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
682273	● red	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
682274	<ul><li>blue</li></ul>	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000

Item no.	Product colour	Volume	Volume range	Caps attached	Cap design	Lid type	Qty. inner / outer
682275	● green	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
682276	yellow	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
682277	■ violet	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
682281	sorted	0.5 ml	≤0.5 ml	yes	individually attached	flat	1,000 / 10,000
684201	natural	0.2 ml	≤0.2 ml	no		without lid	1,000 / 10,000

/ Sorted colour contains the following colours: red, blue, green, yellow, violet



#### PCR 8-Tube Strips

- Thin wall for optimal heat transfer
- Low evaporation rate in PCR
- Also available with individually attached caps or as low-profile version
- / Packaging labelled with product symbols

Raw material: PP

Item no.	Description	Feature	Product colour	Volume range	Caps attached	Cap design	Lid type	Qty. inner / outer
673210	PCR 8-Tube Strips		○ natural	≤0.2 ml	no	separate cap strip		125 / 1,250
673273	PCR 8-Tube Strips		● red	≤0.2 ml	no	separate cap strip		125 / 1,250
673274	PCR 8-Tube Strips		<ul><li>blue</li></ul>	≤0.2 ml	no	separate cap strip		125 / 1,250
673275	PCR 8-Tube Strips		<b>●</b> green	≤0.2 ml	no	separate cap strip		125 / 1,250
673276	PCR 8-Tube Strips		yellow	≤0.2 ml	no	separate cap strip		125 / 1,250
673277	PCR 8-Tube Strips		● violet	≤0.2 ml	no	separate cap strip		125 / 1,250
673271	PCR 8-Tube Strips		sorted	≤0.2 ml	no	separate cap strip		125 / 1,250
671221	Low profile 8-tube strips	low profile	○ natural	≤0.1 ml	yes	indi- vidually attached	flat	120 / 1,200

Item no.	Description	Feature	Product colour	Volume range	Caps attached	Cap design	Lid type	Oty. inner / outer
673283	8-tube strips with individually attached caps		○ natural	≤0.2 ml	yes	indi- vidually attached	domed	120 / 1,200
608281	8-tube strips with individually attached caps		onatural	≤0.2 ml	yes	indi- vidually attached	flat	120 / 1,200
673281	Low profile 8-tube strips	low profile	○ natural	≤0.1 mI	no	separate cap strip	flat	125 / 1,250

/ Sorted colour contains the following colours: red, blue, green, yellow, violet



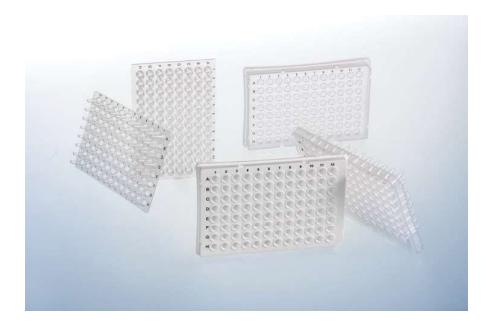
#### Sapphire PCR 8-Cap Strips

- / Real-time PCR cap strips (Item No. 373250) have a flat lid and are made of highly transparent polypropylene
- / These are ideal for real-time PCR applications and are compatible with most real-time PCR devices

Description: 8-cap strip, Raw material: PP

Item no.	Feature	Product colour	Qty. inner / outer
373270		○ natural	125 / 1,250
373273		● red	125 / 1,250
373274		blue	125 / 1,250
373275		● green	125 / 1,250
373276		yellow	125 / 1,250
373277		violet	125 / 1,250
373281		sorted	125 / 1,250
373250	for RT PCR	onatural	125 / 1,250

 ${\it I} \quad {\tt Sorted colour contains the following colours: red, blue, green, yellow, violet}$ 





/ For details regarding plate geometry as well as compability with thermal cyclers, please refer to the technical appendix.

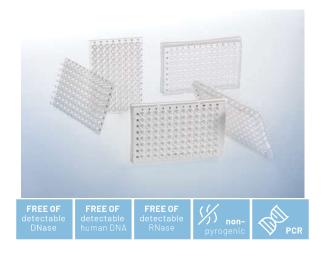
# **SAPPHIRE**PCR MICROPLATES

The use of the 96 well format allows the scale up of basic PCR work, while the 384 well format is ideal for high-throughput screening projects.

All microplates are made of thinwalled polypropylene. This op-

timises the heat transfer from the thermoblock to the reaction solution. Our heat-resistant sealers AMPLIseal, VIEW-seal and SILVERseal are ideal for sealing the microplates during PCR, and the 96 well microplate may also be sealed with 8-cap strips.

- / Available in 96 well and 384 well format
- / Ultra-thin polypropylene for optimal heat transfer
- / Sealable with sealers SILVERseal, VIEWseal and AMPLIseal

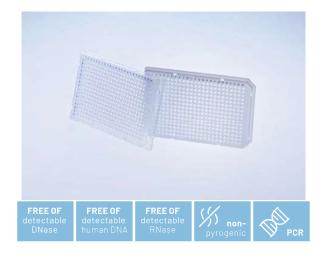


#### 96 Well PCR Microplates

- / Without skirt, half-skirt and full-skirt
- / Alphanumeric printing for rapid sample identification
- / Sealable with sealers SILVERseal , VIEWseal and AMPLIseal or with compatible 8-cap strips
- / Low profile microplate for reduced sample volume and cycle time

Well format: 96, Raw material: PP

Item no.	Feature	Skirt	Product colour	Colour alphanumeric code	Well volume, max	Qty. inner / outer
652201		without skirt	○natural	● black	0.2 ml	10 / 100
652250	flat, universal	without skirt	onatural on the same of the sa	● black	0.2 ml	10 / 100
652210	low profile	without skirt	○ natural	● black	0.1 ml	10 / 100
669285	suitable for LightCycler®	half-skirt	○white	● black	0.2 ml	10 / 100
652290	suitable for ABI	half-skirt	○ natural	● black	0.2 ml	10 / 100
652260	ABI design	half-skirt	onatural on the same of the sa	● black	0.2 ml	10 / 100
652270		yes	○ natural	● black	0.2 ml	10 / 100



#### 384 Well PCR Microplates

- / Thin wall for optimal heat transfer
- / Alphanumeric well coding
- / Sealable with sealers SILVERseal , VIEWseal and AMPLIseal
- / White and black microplate versions are available on request

Well format: 384, Skirt: yes, Raw material: PP, Total volume (well): 25  $\mu l$ 

Item no.	Feature	Product colour Colour alphanumeric co		Qty. inner / outer
785201		○ natural	blue	15 / 60
785290	suitable for ABI	o natural	blue	15 / 60
785285	suitable for LightCycler®	○white	● black	50 / 100