

PCR Microplates

96 and 384 Well Polypropylene Microplates for PCR

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, such as the sequencing of complex genomes. All microplates are made of thin-walled polypropylene. This optimises the heat transfer from the thermoblock to the reaction solution. Our heat-resistant sealers AMPLIseal™, VIEWseal™ and SILVERseal™ (→ p. 12 | 3 ff.) are ideal for sealing the microplates during PCR, and the 96 well microplate may also be sealed with the 0.2 ml 8-cap strips (→ p. 7 | 3).

96 Well Polypropylene Microplates for PCR

96 well polypropylene PCR microplates are available in different design options:

1. Non-skirted microplate (Fig. 1)

Non-skirted microplates may be used in all commonly available thermocyclers with a 96 well block.

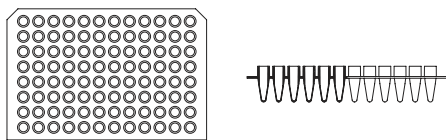


Figure 1: View of a non-skirted microplate

2. Half-skirted microplate with one notch, suitable for ABI (Fig. 2)

Half-skirted microplates with one notch especially suitable for ABI systems such as the ABI Prism™ 7700.

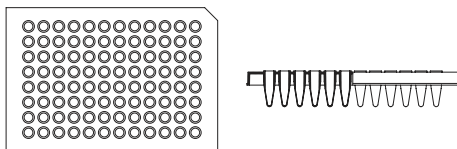


Figure 2: View of a half-skirted microplate with one notch, suitable for ABI

3. Half-skirted microplate with two notches (Fig. 3)

Half-skirted microplates with two notches are more universal than microplates with only one notch.

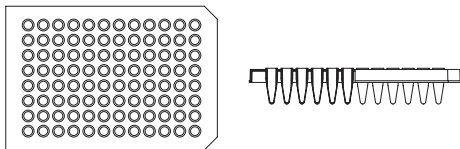


Figure 3: View of a half-skirted microplate with two notches

4. Half-skirted microplate in ABI design with one notch (Fig. 4)

Half-skirted microplates with one notch and especially suitable design for ABI systems such as the ABI sequencing systems.

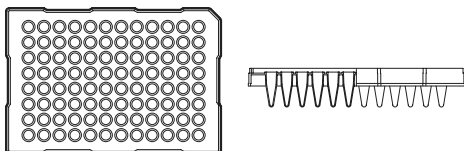


Figure 4: View of a half-skirted microplate with one notch in ABI design

5. Full-skirted microplate (Fig. 5)

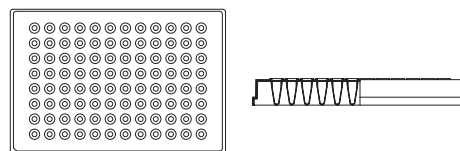


Figure 5: View of a full-skirted microplate without notches

Half-skirted and full-skirted microplates are particularly suitable for automation. They are both "robot-friendly" for grippers, and have sufficient space for the application of barcodes. Table 1 (→ p. 7 | 6) gives an overview of the compatibility of the microplates with different thermocyclers.

384 Well Polypropylene Microplates for PCR

The 384 well PCR microplates from Greiner Bio-One are manufactured in an advanced injection moulding process following stringent quality criteria. Minimal distortion and sagging curvature, homogeneous heat transfer and sealing of the individual wells are essential quality criteria here. The footprint of all 384 well PCR microplates is compatible with automated systems. The skirted PCR microplates are available in two different versions: a universally usable version with two notches (Fig. 6) and a version specially suited for ABI with one notch (Fig. 7).

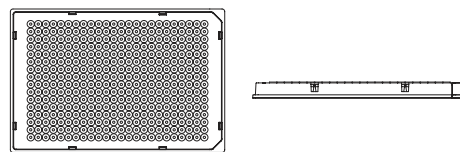


Figure 6: View of a full-skirted 384 well microplate with two notches

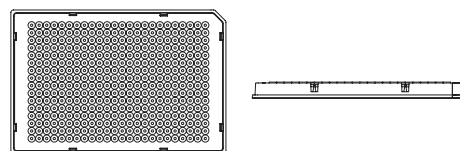


Figure 7: View of a full-skirted 384 well microplate with one notch, suitable for ABI

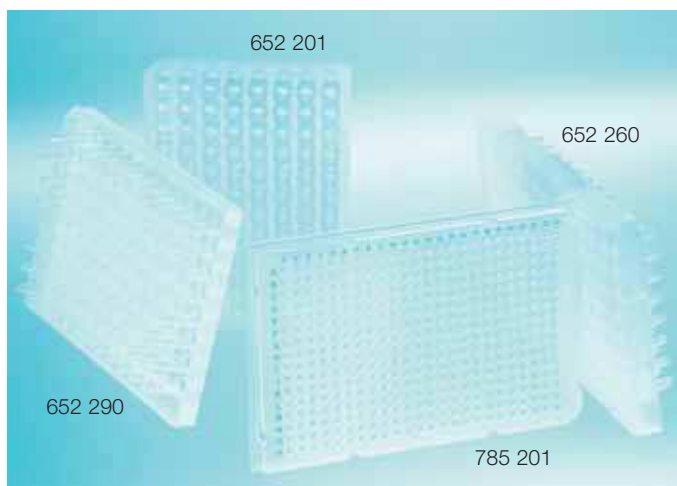


New: The alphanumeric coding of 384 well microplates is particularly user-friendly, being printed in colour.



A barcoding service for PCR microplates is available on request (→ p. 14 | 4).

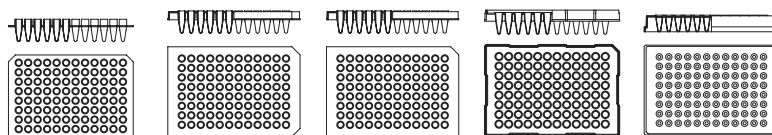
1 Cell/Tissue Culture
2 HTS-Microplates
3 Immunology/HLA
4 Microbiology/Bacteriology
5 Tubes/Multi-Purpose Beakers
6 Liquid Handling
7 Molecular Biology
8 Protein Crystallisation
9 Separation
10 Biochips/Microfluidics
11 Cryo-Technics
12 Lids/Sealers/Cap Mats
13 Reaction Tubes/Analyser Cups
14 Accessories



96 and 384 Well Polypropylene Microplates for PCR

- Ultra thin polypropylene for optimal heat transfer
- Sealable with sealers SILVERseal™, VIEWseal™ and AMPLIseal™ (→ p. 12 | 3 ff.)
- White and black 384 well PCR microplates are available on request

PCR DNase-free
RNase-free
human DNA-free
non-Pyrogenic



Cat.-No.	652 201	652 280	652 290	652 260	652 270
Well format	96 well	96 well	96 well	96 well	96 well
Volume per well	0.2 ml	0.2 ml	0.2 ml	0.2 ml	0.2 ml
Skirt	without skirt	half-skirt	half-skirt	half-skirt	full-skirt
Special feature	-	-	suitable for ABI	ABI design	-
Colour	natural	natural	natural	natural	natural
Sterile	-	-	-	-	-
Lid	-	-	-	-	-
Quantity per bag/case	10/40	10/40	10/40	10/40	10/40

Cat.-No.	785 201	785 290
Well format	384 well	384 well
Volume per well	25 µl	25 µl
Skirt	full-skirt	full-skirt
Special feature	-	suitable for ABI
Colour	natural	natural
Alphanumeric coding	blue	blue
Sterile	-	-
Lid	-	-
Quantity per bag/case	15/60	15/60

➔ New ➔ New

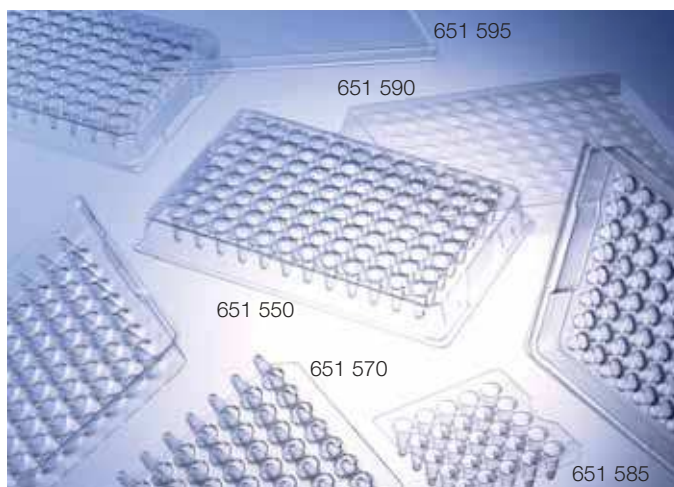
Table of compatibility for PCR Microplates

	Cat.-No.	652 201	652 280	652 290	652 260	652 270	785 201	785 290	
1 Cell/ Tissue Culture	Biometra	Uno	•	•	•	•			
		Uno II	•	•	•		•	•	
		T1 Thermocycler	•	•	•		•	•	
		T3 Thermocycler							
		TGradient	•	•	•		•		
		TRobot	•	•	•		•		
2 HTS- Microplates	Bio-Rad	Genecycler							
		iCycler	•	•	•				
3 Immunology/ HLA	Corbett	Corbett	•	•	•				
	Eppendorf	Mastercycler® Gradient	•	•	•	•			
4 Microbiology/ Bacteriology	Ericom	SingleBlock System	•	•	•				
		TwinBlock System	•	•	•				
		Deltacycler I	•	•	•				
5 Tubes/Multi- Purpose Beakers	ThermoHybaid	PCR Sprint							
		PCR Express	•	•	•	•	•	•	
		MultiBlock System	•	•	•	•	•	•	
		Touchdown	•	•	•	•	•	•	
		Omnigene	•	•	•	•	•		
		Omn-E	•	•	•	•	•		
6 Liquid Handling	MJ Research	PTC200 DNA Engine	•	•	•	•		•	
		PTC225 DNA Tetrad	•	•	•	•		•	
		PTC100	•	•	•	•			
7 Molecular Biology	MWG	Primus 96	•	•	•	•			
		Primus 384					•	•	
8 Protein Crystallisation	ABI	Prism 3100			•	•			
		Prism 3700		•	•	•	•	•	
		Prism 3730			•	•		•	
		Prism 7000			•	•		•	
		Prism 7700	•	•	•	•			
		Prism 7900		•	•	•		•	
		GeneAmp 5700			•				
		GeneAmp 9600	•	•	•	•			
9 Separation	PE	PE 9600	•	•	•				
		PE 9700	•	•	•		•	•	
10 Biochips/ Microfluidics	Stratagene	Robocycler	•	•	•		•	•	
	TaKaRa	TP 240							
11 Cryo- Technics	Techne	TP 3000	•	•	•				
		Touchgene Gradient	•	•	•				
12 Lids/Sealers/ Cap Mats	Techne	Genius	•	•	•	•			

Table 1: PCR microplates compatibility recommendations for Thermocycler, Sequencer and Real Time PCR.

ThermoQuick

Polycarbonate Microplates for PCR



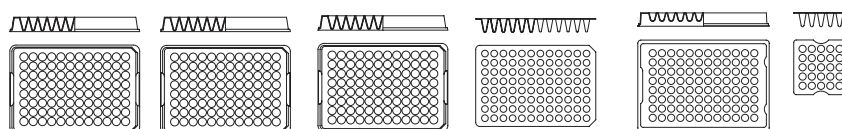
ThermoQuick – Polycarbonate Microplates for PCR

- Polycarbonate for temperatures up to 135°C
- Optimal and rapid heat transmission
- Selection of cavity profiles
- Sealable with sealers SILVERseal™, VIEWseal™ and AMPLIseal™ (→ p. 12 | 3 ff.)
- Lids (optional) for prevention of evaporation and contamination during sample storage (→ p. 12 | 2)

Individually designed, ThermoQuick microplates fit into the cavity profiles of all well-known thermocyclers. Together with the new heat-resistant adhesive sealers SILVERseal™, VIEWseal™ and AMPLIseal™ and the appropriate polycarbonate lids ThermoQuick microplates offer a reliable system for processing large quantities of samples.

The adhesive sealers prevent evaporation and contamination during the PCR reaction, especially in thermocyclers with a heated lid. Polycarbonate lids offer protection against evaporation and contamination during sample storage.

PCR
 DNase-free
 RNase-free
 human DNA-free
 non-Pyrogenic



Cat.-No.	651 501	651 550	651 560	651 570	651 580	651 585
Description	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
Suitable for	Biometra/ Ericom	Hybaid	MJ Research	Perkin-Elmer / Eppendorf Gradient	Techne-96	Techne-25 / Eppendorf Personal
Quantity per bag/case	1/50	1/50	1/50	1/50	1/50	1/50



Cat.-No.	651 590	651 595
Description	Lid	Lid
Suitable for	Type 1 – 4	Type 5
Quantity per bag/case	1/50	1/50

- 1 Cell/
Tissue Culture
- 2 HTS-
Microplates
- 3 Immunology/
HLA
- 4 Microbiology/
Bacteriology
- 5 Tubes/Multi-
Purpose Beakers
- 6 Liquid
Handling
- 7 Molecular
Biology**
- 8 Protein
Crystallisation
- 9 Separation
- 10 Blochips/
Microfluidics
- 11 Cryo-
Techniques
- 12 Lids/Sealers/
CapMats
- 13 Reaction Tubes/
Analyser Cups
- 14 Accessories