

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. 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 8-cap strips (→ p. 7 | 3).

96 Well Polypropylene Microplates for PCR

1. Non-skirted microplates

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

1a) Non-skirted microplate with raised well rims (Fig. 1a)

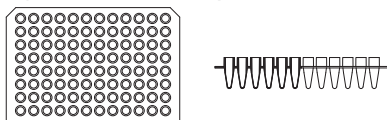


Figure 1a: View of a non-skirted microplate with raised well rims

1b) Non-skirted microplate with flat surface (Fig. 1b)

Black alphanumeric coding enables a quick identification of samples

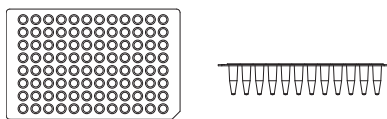


Figure 1b: View of a non-skirted microplate with flat surface

2. Half-skirted microplates

2a) Half-skirted microplate with one notch suitable for Real Time PCR systems such as LightCycler® 480 (Fig. 2a)

- Maximal pigmented white polypropylene and therefore most suitable for sensitive Real Time PCR reactions
- Black alphanumeric coding enables a quick identification of samples
- Notches in the rim facilitate automation due to better gripping in robotic systems

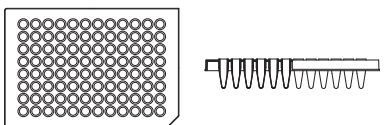


Figure 2a: View of a half-skirted microplate with one notch suitable for Real Time PCR systems such as LightCycler® 480 from Roche

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

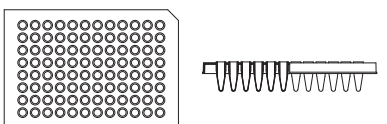


Figure 2b: View of a half-skirted microplate with one notch suitable for ABI

2c) Half-skirted microplate with two notches (Fig. 2c)

- 96 well standard design with two notches

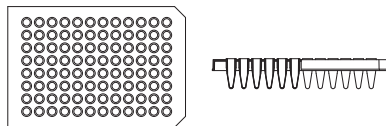


Figure 2c: View of a half skirted microplate with two notches

2d) Half-skirted microplate, recessed rim, ABI design with one notch (Fig. 2d)

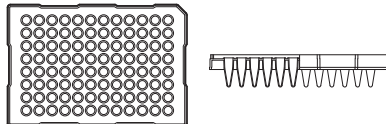


Figure 2d: View of a half-skirted microplate, recessed rim, ABI design with one notch

3. Full-skirted microplate with one notch (Fig. 3)

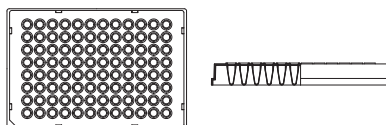


Figure 3: View of full-skirted microplate with one notch

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.

1. Full-skirted 384 well microplate with one notch suitable for ABI (Fig. 4)

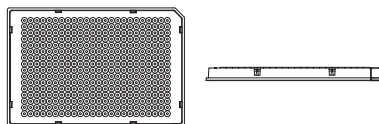


Figure 4: Full-skirted 384 well microplate with one notch and alphanumeric coding suitable for ABI

2. Full-skirted 384 well microplate with two notches (Fig. 5)

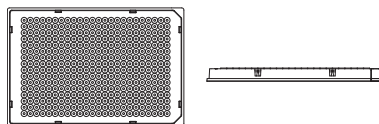


Figure 5: Full-skirted 384 well microplate with two notches and alphanumeric coding

3. Full-skirted 384 well microplate with two notches for Real Time PCR systems such as LightCycler® 480 (Fig. 6)

- White pigmentation boosts Real Time PCR signal
- Black alphanumeric coding enables a quick identification of samples

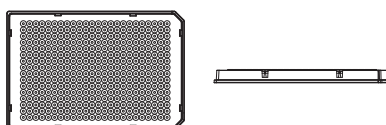


Figure 6: Full-skirted 384 well microplate with two notches for Real Time PCR systems such as LightCycler® 480 from Roche

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