eppendorf

Instructions for use Eppendorf twin.tec® PCR Plates English (EN)

Before using the consumables for the first time, read these instructions for use and the operating manual of the device that you use the consumables with.

1 Safety

1.1 Intended use

Eppendorf twin.tec PCR Plates are designed for single use in PCR applications.

The product can be used for training, routine and research laboratories in the areas of life sciences, industry or chemistry. This product is intended to be used for research purposes only. Eppendorf does not provide warranty for other applications. The product is not suitable for use in diagnostic or therapeutic applications. The product may only be used by skilled personnel who have been trained in the areas mentioned above.

The Eppendorf twin.tec PCR Plates *real-time* can be distinguished from the Eppendorf twin.tec PCR Plates by white wells. They are intended for real-time PCR.

The Eppendorf twin.tec PCR Plates *microbiology* possess additional purity characteristics. In addition to the PCR clean purity criterion (free of DNA, DNase, RNase and PCR inhibitors), these plates are free of bacterial DNA. They are produced under strictly controlled conditions according to ISO 9001 and ISO 13485. Additionally, gassing with ethylene oxide is performed.

The Eppendorf twin.tec PCR Plates Forensic DNA Grade are designed to meet the high requirements of forensic applications. They comply with ISO 18385 specifications. The tests are performed by an external test laboratory (accredited to ISO 17025). The purity criteria are specified in batch-specific certificates.



WARNING! Damage to health from toxic, radioactive or aggressive chemicals as well as infectious liquids and pathogenic germs.

- Observe the national regulations for handling these substances, the biological security level of your laboratory, the safety data sheets and the manufacturer's application notes.
- ▶ Wear your personal protective equipment.
- Consult the "Laboratory Biosafety Manual" (source: World Health Organization, Laboratory Biosafety Manual, in its respectively current valid version).



WARNING! Damage to health due to escaping substances.

- ▶ Only use optically perfect and undamaged twin.tec PCR Plates.
- Observe the maximum filling volume. Liquid may splash out when the selected sealing system is removed.
- Close twin.tec PCR Plates prior to centrifugation. Observe the instructions in the device operating manual.
- Store and transport twin.tec PCR Plates in such a manner that no material can escape from the twin.tec PCR Plates.
- > Do not use the twin.tec PCR Plates as cryogenic tubes.
- Take appropriate measures to avoid contaminations after opening the bag containing PCR clean consumables.
- Reagents, consumables contaminated with reagents and materials used for cleaning and disinfecting should be disposed of in accordance with laboratory regulations.

2 Product description

The Eppendorf twin.tec PCR Plate is a polycarbonate/polypropylene single plate. Different sealing options ensure evaporation protection.

3 Application

For PCR instructions please refer to reagent manufacturers' work specifications or lab protocols.

3.1 Filling

Maximum filling volume:

- twin.tec PCR Plate 96, semi-skirted and unskirted: 250 μL
- twin.tec PCR Plate 96, skirted and unskirted low profile: 150 μL
- twin.tec PCR Plate 384: 45 µL
- Fill the twin.tec PCR Plates directly or in a suitable rack.

3.2 Sealing

- You can use cap strips, adhesive PCR foils and films or heat sealing foils and films to seal the twin.tec PCR Plates.
 - We recommend heat sealing with Eppendorf Heat Sealing Foil or Eppendorf Heat Sealing Film as the ideal protection against evaporation.

3.3 Real-time PCR

An application for plates with white wells is to enhance the signal recovery and thus the detection limit in real-time PCR applications. This is the case with a dye which has a low concentration or low fluorescence intensity. Generally plates with white, signal amplifying wells can cause irradiation - depending on the device - if the concentration of the dye is too high. In this case, you should reduce the concentration of the probe or of the dye.

4 Technical data

Material	Polycarbonate, polypropylene (wells)		
Operational temperature	-80 °C to +120 °C.		
Autoclavability	121 °C, 20 min, not closed		
Centrifugation stability	Suitable for centrifugation at up to 2250 \times g with PCR plate		
	adapter in a swing-bucket rotor.		
	twin.tec PCR Plate 96, unskirted, divisible:		
	➤ Centrifuge a maximum of two plate segments per bucket.		
	▶ Place the plate segments in the center of the PCR plate		
	adapter.		
Eppendorf purity grade	Batch testing (certified) for the following purity criteria:		
	Human DNA-free, DNase-free, RNase-free and free of PCR		
	inhibitors*.		
Eppendorf LoBind	Consumables with the highest recovery rates for DNA		
	molecules and RNA molecules. PCR clean.		
Eppendorf Forensic DNA	Consumables with the "Eppendorf Forensic DNA Grade" purity		
Grade	grade meet ISO 18385* requirements.		
Storage before use	► Protect from direct sunlight and UV light.		
	➤ Store dry at ambient temperature.		

^{*)} Batch-specific certificates are available on the Internet at: www.eppendorf.com/ certificates.

5 Ordering information

Order no.	Order no.	Description
(International)	(North America)	
		Eppendorf twin.tec PCR Plate 96
		skirted, 150 μL
0030 128.648	951020401	PCR clean, colorless, 25 pcs.
0030 129.601	0030129601	Forensic DNA Grade, colorless, 10 pcs., individually
		wrapped
		Eppendorf twin.tec PCR Plate 96
		semi-skirted, 250 μL
0030 128.575	951020303	PCR clean, colorless, 25 pcs.
0030 129.610	0030129610	Forensic DNA Grade, colorless, 10 pcs., individually
		wrapped
		Eppendorf twin.tec PCR Plate 96, low profile
		unskirted, 150 μL
0030 133.307	0030133307	PCR clean, colorless, 20 pcs.
		Eppendorf twin.tec PCR Plate 96, divisible
0000 400 050	0000400050	unskirted, 150 µL
0030 133.358	0030133358	PCR clean, colorless, 20 pcs.
		Eppendorf twin.tec PCR Plate 96
0020 122 277	0020122277	unskirted, 250 μL PCR clean, colorless, 20 pcs.
0030 133.366	0030133366	Eppendorf twin.tec PCR Plate 96, divisible
		unskirted, 250 µL
0030 133.374	0030133374	PCR clean, colorless, 20 pcs.
0030 133.374	0030133374	twin.tec Adapter for LC 480
		for PCR Plate 96, unskirted
0030 133.412	0030133412	ioi i ck i late 70, diiskii ted
0030 133.412	0030133412	Eppendorf twin.tec 96 real-time PCR Plate
		skirted, 150 µL
0030 132.513	951022015	PCR clean, white, 25 pcs.
0030 132.515	0030129636	Forensic DNA Grade, white, 10 pcs., individually
0030 127.030	0030127030	wrapped
		Eppendorf twin.tec 96 real-time PCR Plate
		semi-skirted, 250 μL
0030 132.548	951022055	PCR clean, white, 25 pcs.
0030 129.644	0030129644	Forensic DNA Grade, white, 10 pcs., individually
		wrapped
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Order no.	Order no.	Description
(International)	(North America)	
		Eppendorf twin.tec 96 real-time PCR Plate, low
		profile
		unskirted, 150 μL
0030 132.700	0030132700	PCR clean, white, 20 pcs.
		Eppendorf twin.tec microbiology PCR plate 96
		skirted, 150 μL
0030 129.300	0030129300	PCR clean, colorless, 10 pcs.
		Eppendorf twin.tec microbiology PCR plate 96
		semi-skirted, 250 μL
0030 129.326	0030129326	PCR clean, colorless, 10 pcs.
		Eppendorf twin.tec PCR Plate 384
		skirted, 40 μL
0030 128.508	951020702	PCR clean, colorless, 25 pcs.
0030 129.628	0030129628	Forensic DNA Grade, colorless, 10 pcs., individually
		wrapped
		Eppendorf twin.tec microbiology PCR plate 384 skirted, 40 μL
0030 129.342	0030129342	PCR clean, colorless, 10 pcs.
-		Eppendorf twin.tec PCR Plates 96 LoBind, skirted
0030 129.512	0030129512	PCR clean, colorless, 25 pcs.
-		Eppendorf twin.tec PCR Plates 96 LoBind,
		semi-skirted
0030 129.504	0030129504	PCR clean, colorless, 25 pcs.
		Eppendorf twin.tec PCR Plates 384 LoBind
		skirted
0030 129.547	0030129547	PCR clean, colorless, 25 pcs.

Additional ordering information for color variants of Eppendorf twin.tec PCR Plates, Eppendorf PCR Film & Foil, Eppendorf PCR Tubes, PCR Tube Strips, and PCR Cap Strips (real-time PCR and standard PCR): www.eppendorf.com.

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