

Quality Certificate for Treff Deep Well Plates

This Document is valid for all Deep Well Plates, round bottom wells:

Treff Deep Well Plates	0.5 ml wells, plate made of polypropylene
Treff Deep Well Plates	1.2 ml wells, plate made of polypropylene
Treff Deep Well Plates	1.2 ml wells, plate made of polystyrene
Treff Deep Well Plates	2.2 ml wells, plate made of polypropylene

Production

Herewith Nolato Treff AG confirms that all Deep Well Plates are made of virgin resins providing high chemical resistance. No additives are used. The microbiological controlled fabrication is carried out in clean room class 8, ISO 14644-1. All Deep Well Plates fulfill ANSI SLAS 2004 footprint for robotic handling. They are 100% fully automated controlled: leak-tightness/ flatness/ wall thickness.

Additional Quality Parameters of Deep Well Plates are:

Analyses are performed by an independent Swiss laboratory for molecular biological and microbiological analytics, accredited ISO/IEC17025 for real-time PCR.

Free of RNase	(< 5x10E-9 Kunitz units)
Free of DNase	(< 5x10E-6 Kunitz units)
Free of human DNA	(< 2 pg DNA)
Free of PCR inhibitors	(< 10 copies)
Free of endotoxins	(< 0.001 EU/ml)
Free of ATP	(< 30 RLU)

Analyses of physical properties are performed by Quality Department of Nolato Treff AG.

Temperature: Treff PP Deep Well Plates withstand temperature range from -80°C to autoclaving (121°C, 20 minutes, 100% humidity) according DIN EN 285. PS Deep Well Plates withstand -20°C to 60°C.

Centrifuge Forces: *Treff Deep Well Plate, PP or PS, have been developed to serve as Sample preparation, assay and storage vessel" primary. Treff is not doing regular centrifuge tests. However, from market experience we know customers are doing centrifuge runs with Treff Deep Well Plates frequently. We know that DWP has been successfully used up to 2000g (1.2 ml) and 5000g (2.2 ml). However, Treff will not guarantee any centrifuge stability since compliance with critical physical parameters is mandatory to reach such a stability, i.e. proper counterbalance (>0.1 gram), appropriate centrifuge swing plates, proper DWP positioning at swing plate, stress reduction of plate bottom by use of flexible support mat between DWP and swing plate and more. Also, the homogeneity of DWP vial filling (ml) and the total sample weight per vial (g) within the 96 plate is important as well as correct centrifuge operation.*

Overall this is technical information only. Please note that Treff cannot give any guarantee for centrifuge applications of its Deep Well Plates for the above mentioned reasons.

Best regards by Nolato Treff AG



Richard Wiesli
Sales & Marketing Manager, TreffLab



Thomas Kreil
Quality Department