Deep Well Plates made by Treff AG

General Quality Characteristics

Treff provides best Swiss made quality Deep Well Plates for general sample preparation purposes as well as for storage applications. Round bottom wells, alphanumerical grid, ANSI SLAS 2004 footprint for robotic handling, fitness for magnetic separation devices as well as excellent physical and microbiological properties provide superb application results.

Production Sterile
Treff Deep Well Plates are made of virgin polypropylene or polystyrene resin, providing high chemical resistance. The microbiological controlled production is done in clean room class 8, ISO 14644-1.

Bioburden Proved
All Deep Well Plates are 100% Bioburden free:

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

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

Major Quality Characteristics of Treff Deep Well Plates

- 100% Virgin Polymer only
- Production Sterile, Bioburden Free
- Strong Physical Properties
- Ready to Use
- 100% fully automated leak-tightness controlled
- Permanent flatness control and wall thickness control

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

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