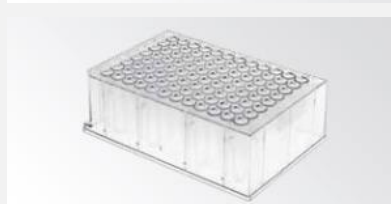


Product Group Quality Certificate and Technical Characteristics

TreffLab Deep Well Plates

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

Treff Deep Well Plates	0.5 ml (PP)
Treff Deep Well Plates	1.2 ml (PP)
Treff Deep Well Plates	1.2 ml (PS)
Treff Deep Well Plates	2.2 ml (PP)



Production

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. 100% fully automated leak-tightness control.

Quality Parameters

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

- Free of RNase ($< 5 \times 10^{-9}$ Kunitz units)
- Free of DNase ($< 5 \times 10^{-6}$ Kunitz units)
- Free of DNA (< 2 pg DNA)
- Free of PCR inhibitors (< 10 copies)
- Free of endotoxins (< 0.001 EU/ml)
- Free of ATP (< 30 RLU)



Nolato Treff uses raw materials which are in compliance with the actual valid RoHS and REACH regulations strictly. Therefore, it also includes Art. 33 of REACH concerning SVHC substances.

Physical Properties

- Withstand a temperature range from approx.
PP: -80°C to 121°C (autoclaving 20 min., 100% humidity, DIN EN 285)
PS: -20°C to 60°C
- Withstand centrifugal g forces
up to 6'000 RCF when used *with* TreffLab Centrifuge Mat
up to 2'000 RCF when used *without* TreffLab Centrifuge Mat
- According to ANSI/SLAS 2004 specification for robotic handling
- Round bottom wells (U)

Materials

All products are produced with 100 % virgin polymer only. No recycled materials are used. Our material suppliers do not use or intentionally incorporate the following agents into the materials Nolato Treff used for production:

- Slip agents (i.e. Oleamide)
- Biocides (i.e. DIHEMDA)
- Plasticizers (softeners/ phthalates)
- Silicone

ISO Certificates

The Nolato Treff AG is certified according to ISO 9001, ISO 13485, ISO 14001 and ISO 22000.

All TreffLab Consumables are produced in microbiologically controlled clean rooms class 8, ISO 14644-1

Safety note

TreffLab 0.5 ml, 1.2 ml **and 2.2 ml Deep Well Plates, PP or PS, have been developed to serve as «Sample preparation, assay and storage vessel» primarily.** All Nolato Treff DWP are suitable for centrifugal applications with the prescriptive limits according to TreffLab technical data sheet.

However, Nolato Treff will not guarantee any centrifugal stability since compliance with critical physical parameters are mandatory. In order to achieve such stability, i.e. proper counterbalance (> 0.1 gram), appropriate centrifugal swing plates, proper DWP positioning at swing plate, stress reduction of plate bottom by use of flexible support mat between DWP and swing plate is required. The homogeneity of DWP vial filling (ml) and the total sample weight per vial (g) within the 96 plate is also important, as well as a correct

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Richard Wiesli
Sales & Marketing Manager,
TreffLab



Peter Klose
Head Quality Management

