

Product Group Quality Certificate and Technical Characteristics

TreffLab PCR/ qPCR Tubes and Strips

This document is valid for all PCR/ qPCR tubes and strips:

TreffLab PCR Single Tubes 0.2 ml
 TreffLab PCR Single Tubes 0.5 ml
 TreffLab PCR Strip 8 Tubes 0.2 ml
 TreffLab PCR Strip 8 domed Caps
 TreffLab PCR Strip 8 flat Caps
 TreffLab qPCR Strip 8 Tubes 0.2 ml (white)



Production

Nolato Treff AG confirms that TreffLab PCR/ qPCR Tubes and Strips are made of virgin PP resins providing high chemical resistance. The microbiological controlled fabrication is carried out in clean room class 8, ISO 14644-1. No additives are used.

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



Physical Properties

- Ultrathin walls guarantee rapid heat transfer and short cycle times
- Single Tubes withstand centrifugal g forces up to 30'000 RCF
- Special surface quality minimizes binding of enzymes and nucleic acid to the wells
- Withstand a temperature range from approx. -195°C (gas phase of liquid nitrogen) to 121°C (autoclaving 20 min., 100% humidity)
- Ready to Use (CleanRoom Pure® / LoTrace® DNA)

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

All color dyes are masterbatch «medical grade»

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 qPCR Microtubes and Plates, PP, have been specifically developed to deal with special Real-Time PCR requirements such as optimized reflection of fluorescence signals for direct quantitate DNA measurement. They are 100 % sensitivity safe and enable rare nucleic acid sequences to be detected and analyzed. Intended use: For Research and Development only.

All TreffLab Microtube are tested to meet specified cap opening force according to its application field i.e. Thermal Cycler assays. Note: PCR tubes and strips are not approved for overpressure applications.

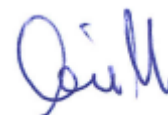
To keep the physical properties of TreffLab PP Consumables, the following storage conditions are recommended:

- storage temperature (18 – 28°C)
- no light exposure (= packed in original cardboard box)

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