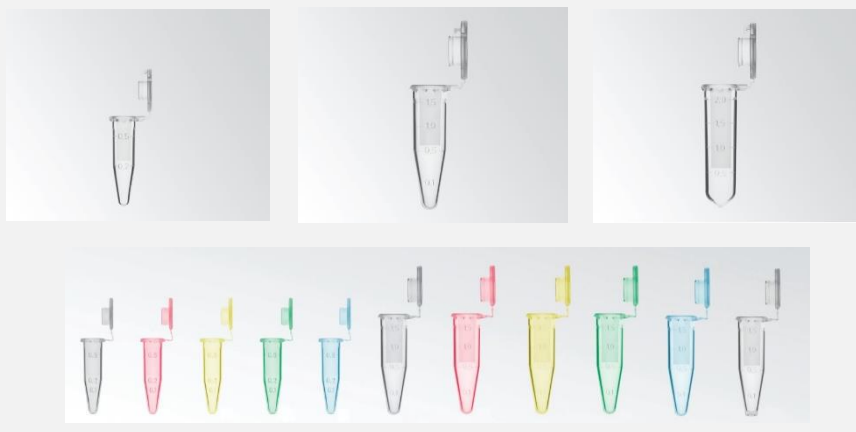


Product Group Quality Certificate and Technical Characteristics

TreffLab Microtubes

This document is valid for all
Micro (centrifuge) tubes:

TreffLab Microtubes	0.5 ml (PP)
TreffLab Microtubes	1.5 ml (PP)
TreffLab Microtubes	2.0 ml (PP)



Production

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

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

- All color dyes are masterbatch «medical grade»
- Withstand a temperature range from approx. -195°C (gas phase of liquid nitrogen) to 121°C (autoclaving 20 min., 100% humidity)
- Withstand centrifugal g forces up to 30'000 RCF (0.5 ml, 1.5 ml) and up to 20'000 RCF (2.0 ml)
- CapLock™ Microtubes grade is suited for denaturation protocols near boiling point of H₂O
- Ready to Use (CleanRoom Pure ®)

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, 1.5 ml and 2.0 ml TreffLab Microtubes, PP, have been developed to serve as «Sample preparation, assay and storage vessel» primarily. Intended use: For Research and Development only.

All Nolato Treff Microtubes are suitable for centrifugal applications with the prescriptive limits according to TreffLab technical data sheet.

All TreffLab Microtube are tested to meet specified cap opening force according to its application field i.e. sample preparation at room temperature or denaturation assays up to 95°C.

Note: CapLock™ Microtubes are not approved for overpressure applications.

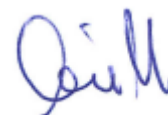
To keep the physical properties of TreffLab PP Consumables, the following storage conditions are recommended:

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

March, 2021



Richard Wiesli
Sales & Marketing Manager,
TreffLab



Thomas Kreil
Quality Department

