

# Microtubes





CleanRoom®  
**PURE**

## General Characteristics

TreffLab offers a huge variety of CleanRoom Pure® microtubes for all kinds of applications such as general laboratory purposes, heat incubation, rare analytes and light sensitive probes.



### TreffLab CapLock, *CleanRoom Pure®*

Microtubes featuring the unique Treff Double-Lock™ cap closing system to safely prevent unintentional opening of lid during incubation or storage when working with valuable or «critical» probes.



### TreffLab ClickFit, *CleanRoom Pure®*

Microtubes for general and special purpose with increased cap opening forces for procedures including higher vapor pressure. Suited for denaturation protocols near boiling point of H<sub>2</sub>O.



### TreffLab EasyFit, *CleanRoom Pure®*

Microtubes with easy cap opening forces for general purpose to serve as sample preparation, centrifuge, assay and storage vessel.

## Additional new qualities

### ▶ **LightBlock™, DNA Low Binding**

These black TreffLab microtubes guarantee excellent surface quality and light shielding properties, even suitable for heat incubations.

### ▶ **DNA Low Binding**

In comparison with competitor microtubes from various companies, TreffLab microtubes are made of special virgin resin providing excellent low DNA binding quality.

### **All TreffLab Microtubes CleanRoom Pure® feature the following characteristics:**

- ▶ 100% virgin polymer only, providing high chemical quality, no additives
- ▶ All color dyes are masterbatch «medical grade»
- ▶ Microbiological controlled production in cleanrooms class 8, ISO 14644-1
- ▶ Free of RNase, DNase, human DNA, endotoxins, PCR inhibitors and ATP
- ▶ Withstand a temperature range from approx. -195°C (gas phase of liquid nitrogen) to 121°C (autoclaving 20 minutes, 100% humidity) according to DIN EN 285
- ▶ Withstand centrifugal g forces up to 30'000 RCF (0.2 ml, 0.5 ml, 1.5 ml) and up to 20'000 RCF (2.0 ml)
- ▶ Ready to Use (CleanRoom Pure®)

All analyses have been carried out by an independent Swiss laboratory, accredited according to ISO/IEC 17025, or by the quality department at Nolato Treff AG. Corresponding data sheets are available on request.

## CapLock Microtubes *CleanRoom Pure®*

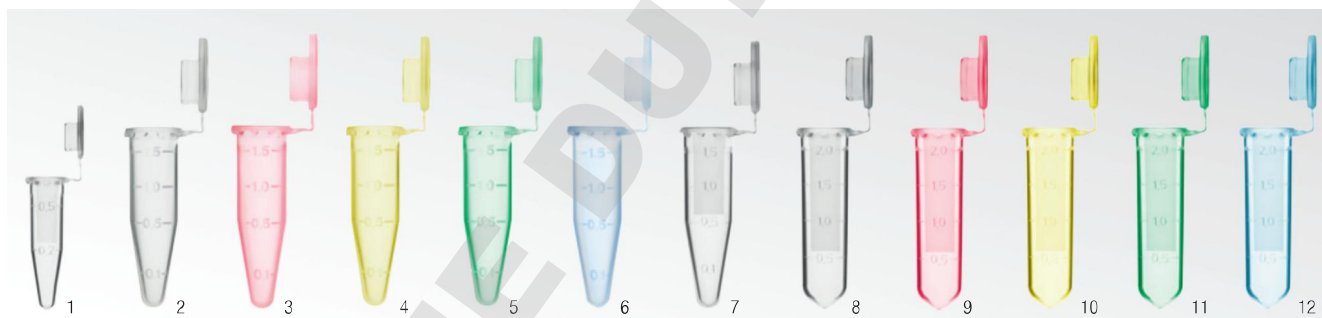
**Field of application:** The **Treff Double-Lock™** cap closing system safely prevents unintentional opening of the lid during incubation or storage.



| Product Description   | Material | Colour | Quantity                         | Order No.     | Image No. |
|-----------------------|----------|--------|----------------------------------|---------------|-----------|
| <b>CapLock</b> 0.5 ml | PP       | clear  | <b>20'000</b> – 40 bags of 500   | 96.10833.9.01 | 1         |
| <b>CapLock</b> 1.5 ml | PP       | clear  | <b>10'000</b> – 10 bags of 1'000 | 96.08668.9.01 | 2         |
| <b>CapLock</b> 2.0 ml | PP       | clear  | <b>8'000</b> – 16 bags of 500    | 96.10834.9.01 | 3         |

## ClickFit Microtubes *CleanRoom Pure®*

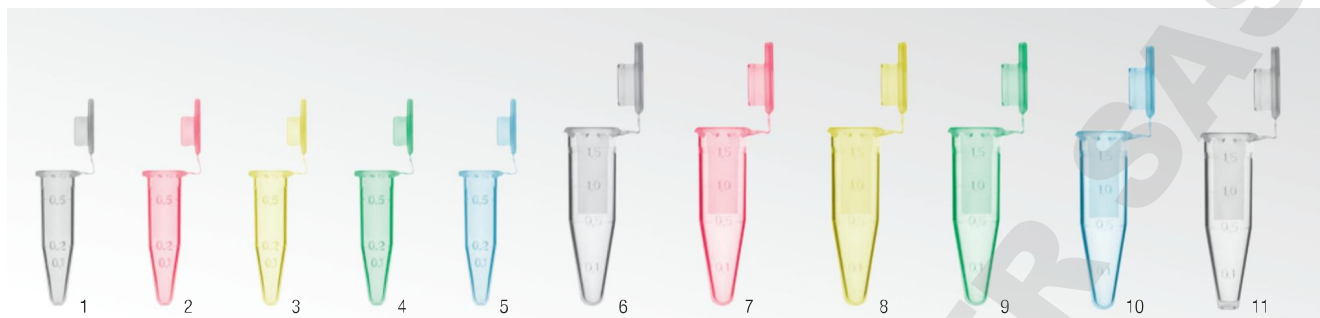
**Field of application:** Increased cap opening force for heating applications.



| Product Description    | Material | Colour                  | Quantity                         | Order No.     | Image No. |
|------------------------|----------|-------------------------|----------------------------------|---------------|-----------|
| <b>ClickFit</b> 0.5 ml | PP       | high transparent, clear | <b>20'000</b> – 40 bags of 500   | 96.08185.9.03 | 1         |
| <b>ClickFit</b> 1.5 ml | PP       | clear                   | <b>10'000</b> – 10 bags of 1'000 | 96.07514.9.01 | 2         |
| <b>ClickFit</b> 1.5 ml | PP       | rose                    | <b>10'000</b> – 10 bags of 1'000 | 96.07514.2.01 | 3         |
| <b>ClickFit</b> 1.5 ml | PP       | yellow                  | <b>10'000</b> – 10 bags of 1'000 | 96.07514.4.01 | 4         |
| <b>ClickFit</b> 1.5 ml | PP       | green                   | <b>10'000</b> – 10 bags of 1'000 | 96.07514.5.01 | 5         |
| <b>ClickFit</b> 1.5 ml | PP       | blue                    | <b>10'000</b> – 10 bags of 1'000 | 96.07514.6.01 | 6         |
| <b>ClickFit</b> 1.5 ml | PP       | high transparent, clear | <b>10'000</b> – 10 bags of 1'000 | 96.07811.9.03 | 7         |
| <b>ClickFit</b> 2.0 ml | PP       | clear                   | <b>8'000</b> – 16 bags of 500    | 96.09329.9.01 | 8         |
| <b>ClickFit</b> 2.0 ml | PP       | rose                    | <b>8'000</b> – 16 bags of 500    | 96.09329.2.01 | 9         |
| <b>ClickFit</b> 2.0 ml | PP       | yellow                  | <b>8'000</b> – 16 bags of 500    | 96.09329.4.01 | 10        |
| <b>ClickFit</b> 2.0 ml | PP       | green                   | <b>8'000</b> – 16 bags of 500    | 96.09329.5.01 | 11        |
| <b>ClickFit</b> 2.0 ml | PP       | blue                    | <b>8'000</b> – 16 bags of 500    | 96.09329.6.01 | 12        |

## EasyFit Microtubes *CleanRoom Pure®*

**Field of application:** Gentle cap opening force for general purpose usage and storage.  
However, for heat incubations we recommend the use of ClickFit Microtubes CleanRoom Pure®.



| Product Description | Material | Colour | Description  | Quantity                  | Order No.     | Image No. |
|---------------------|----------|--------|--------------|---------------------------|---------------|-----------|
| EasyFit 0.5 ml      | PP       | clear  | round bottom | 20'000 – 40 bags of 500   | 96.04625.9.01 | 1         |
| EasyFit 0.5 ml      | PP       | rose   | round bottom | 20'000 – 40 bags of 500   | 96.04625.2.01 | 2         |
| EasyFit 0.5 ml      | PP       | yellow | round bottom | 20'000 – 40 bags of 500   | 96.04625.4.01 | 3         |
| EasyFit 0.5 ml      | PP       | green  | round bottom | 20'000 – 40 bags of 500   | 96.04625.5.01 | 4         |
| EasyFit 0.5 ml      | PP       | blue   | round bottom | 20'000 – 40 bags of 500   | 96.04625.6.01 | 5         |
| EasyFit 1.5 ml      | PP       | clear  | round bottom | 10'000 – 10 bags of 1'000 | 96.07246.9.01 | 6         |
| EasyFit 1.5 ml      | PP       | rose   | round bottom | 10'000 – 10 bags of 1'000 | 96.07246.2.01 | 7         |
| EasyFit 1.5 ml      | PP       | yellow | round bottom | 10'000 – 10 bags of 1'000 | 96.07246.4.01 | 8         |
| EasyFit 1.5 ml      | PP       | green  | round bottom | 10'000 – 10 bags of 1'000 | 96.07246.5.01 | 9         |
| EasyFit 1.5 ml      | PP       | blue   | round bottom | 10'000 – 10 bags of 1'000 | 96.07246.6.01 | 10        |
| EasyFit 1.5 ml      | PP       | clear  | flat bottom  | 10'000 – 10 bags of 1'000 | 96.10234.9.01 | 11        |

## LightBlock™ DNA Low Binding Microtubes *CleanRoom Pure®*

**Field of application:** Storage and work with light sensitive samples, DNA low binding /black/ increased opening force.



| Product Description | Material | Colour | Quantity                  | Order No.     | Image No. |
|---------------------|----------|--------|---------------------------|---------------|-----------|
| LightBlock™ 0.5 ml  | PP       | black  | 5'000 – 10 bags of 500    | 96.07456.0.01 | 1         |
| LightBlock™ 1.5 ml  | PP       | black  | 10'000 – 10 bags of 1'000 | 96.07514.0.21 | 2         |
| LightBlock™ 2.0 ml  | PP       | black  | 8'000 – 16 bags of 500    | 96.09329.0.01 | 3         |

## Pellet Mixer for TreffLab Microtubes

**Quality characteristics:** Grooved grip for easy turning/ autoclavable (121°C/20 min).

**Field of application:** To resuspend probe.



| Product Description | Material | Application           | Quantity | Order No.     | Image No. |
|---------------------|----------|-----------------------|----------|---------------|-----------|
| Pellet Mixer        | PBTP     | for Microtubes 0.5 ml | 50       | 96.07338.9.03 | 1         |
| Pellet Mixer        | PBTP     | for Microtubes 1.5 ml | 50       | 96.07339.9.03 | 2         |

## TreffLab Microtube Opener

**Field of application:** Easy opening of Microtubes with gloves.



| Product Description | Material | Application                | Color        | Quantity                          | Order No.      | Image No. |
|---------------------|----------|----------------------------|--------------|-----------------------------------|----------------|-----------|
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | red          | 500 – 50 bags of 10               | 96.11453.2.01  | 1         |
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | orange       | 500 – 50 bags of 10               | 96.11453.3.01  | 2         |
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | yellow       | 500 – 50 bags of 10               | 96.11453.4.01  | 3         |
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | green        | 500 – 50 bags of 10               | 96.11453.5.01  | 4         |
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | blue         | 500 – 50 bags of 10               | 96.11453.6.01  | 5         |
| Opener              | PP       | for Microtubes 0.2- 5.0 ml | Color Mix 10 | 500 – 50 bags of 10 of each color | 96.11453.10.01 | 1-5       |

## TreffLab Storage Box

**Field of application:** Autoclavable laboratory storage box for microtubes, vials other small laboratory items.



| Product Description | Material | Application                 | Color | Quantity | Order No.     | Image No. |
|---------------------|----------|-----------------------------|-------|----------|---------------|-----------|
| Storage Box         | PC       | for general storage purpose | clear | 12 pcs   | 96.11564.9.01 | 1         |

**TreffLab**

**Quality Certificate for Autolys M Tube - Forensic Grade, Ethylene Oxide treated**

This document is valid for:  
 TreffLab Autolys M Tube with blue Cap, EO treated, 20 ml-cs

**Performance**  
 TreffLab Autolys M Tube and Cap are made of polypropylene resin providing high chemical resistance. Cap is made of polypropylene resin providing high chemical resistance. The microphysical conditions verification is carried out in clean room class 8, ISO 14644-1.

**Additional Quality Parameters of TreffLab Autolys M Tube and Cap before and after EO treatment are:**

|                        |                     |
|------------------------|---------------------|
| Free of DNA            | (+/- 100 pg DNA/ml) |
| Free of RNA            | (+/- 100 pg RNA/ml) |
| Free of PCR inhibitors | (+/- 100 pg DNA/ml) |
| Free of endotoxins     | (+/- 100 pg DNA/ml) |
| Free of ATP            | (+/- 100 pg DNA/ml) |
| Free of protein DNA    | (+/- 100 pg DNA/ml) |
| Free of protein RNA    | (+/- 100 pg RNA/ml) |

Analysis are performed by independent Swiss laboratories for molecular biological and microphysical. Reduction of DNA content by 10 to 1000 fold.

**Autolys M Tube**  
 The Autolys M Tube is designed for molecular biological applications with 100% reliability. It is designed for maximum efficiency and reliability. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance.

**Membrane of Autolys M Tube**  
 The Autolys M Tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance.

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Best regards by TreffLab AG

Dr. Ruedi Buehler  
 Swiss Microchemicals AG

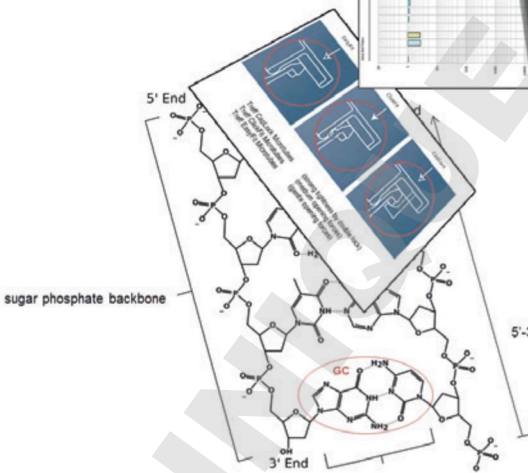


**TreffLab**

**Microtube EasyFit 0.5 ml**

**General Characteristics**  
 Typical dimensions: 12.5 mm x 1.5 mm. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance.

**Typical Applications**  
 The Microtube EasyFit 0.5 ml is designed for molecular biological applications. It is designed for maximum efficiency and reliability. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance. The tube is made of polypropylene resin providing high chemical resistance.



5'-3' single strand orientation

## Notes

Illustrations or dimensions, calculation errors, printing errors or incomplete information in this brochure cannot be excluded.  
Subject to modification without notice.

#### **Nolato Treff AG**

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Taastrasse 16, 9113 Degersheim

Switzerland

Phone: +41 71 372 55 55

E-Mail: [treff.ag@nolato.com](mailto:treff.ag@nolato.com), [trefflab@nolato.com](mailto:trefflab@nolato.com)

[www.nolato.com/treff](http://www.nolato.com/treff)

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