



## Eppendorf Conical Tubes 15 mL and 50 mL

Instructions for use

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## 1 Safety

### 1.1 Intended use

Eppendorf Conical Tubes 15 mL/50 mL are single-use tubes made from polypropylene for preparing, mixing, centrifuging, transporting and storing solid and liquid samples and reagents.

The products can be used for training, routine and research laboratories in the areas of life sciences, industry or chemistry. The products are intended to be used for research purposes only. Eppendorf does not provide a warranty for other applications. The products are not suitable for use in diagnostic or therapeutic applications. The products may only be used by skilled personnel who have been trained in the areas mentioned above.

### 1.2 Warnings for intended use

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**WARNING! Damage to health from toxic, radioactive or aggressive chemicals as well as infectious liquids and pathogenic germs.**

- ▶ Observe the national regulations for handling these substances, the biological security level of your laboratory, the material safety data sheets and the manufacturer's application notes.
- ▶ Wear your personal protective equipment.
- ▶ Consult the "Laboratory Biosafety Manual" (source: World Health Organization, Laboratory Biosafety Manual, in its respectively current valid version).



**WARNING! Health hazard due to escaping substances.**

Tube contents may escape if the tube lids are not closed properly or the seal lips in the tube lid are damaged.

- ▶ Only use visually perfect and undamaged tubes.
- ▶ Close the tubes properly. Do not damage the seal lip.
- ▶ Observe the maximum filling volume. When opening the tubes, liquid at the lid may splash out.
- ▶ Make the necessary safety arrangements for transport or storage to prevent material escaping from the tube.
- ▶ The tubes must not be used with liquid nitrogen. The operating temperature ranges from -86°C to +100°C.

## Safety

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**WARNING! For mixers or centrifuges: Risk of contamination if the tube mounts are too large (wells, rotor bores, buckets).**

Tubes may be destroyed. The tube contents may be accidentally released.

- ▶ Please note height and diameter of the tube. Only use suitable centrifuge inserts or mixer thermoblocks
- ▶ If required, use the adapter intended for this purpose.



**WARNING! Risk of contamination from damaged tubes during centrifugation.**

The tubes are subjected to strong forces during centrifugation. If used incorrectly, the tubes may be destroyed. The tube contents may be accidentally released.

- ▶ Close tube lids before commencing centrifugation.
- ▶ Always observe the maximum permitted centrifugation forces.
- ▶ Read the operating manual of the centrifuge used.
- ▶ Please note that organic solvents can reduce the mechanical resistance of the tubes. In case of doubt, contact Eppendorf Application Support ([support@eppendorf.com](mailto:support@eppendorf.com)).



**WARNING! Risk of contamination from multiple use.**

Consumables are intended for single-use only.

- ▶ After use, dispose of consumables in accordance with the substances with which they have come into contact.



**WARNING! Risk of contamination**

Tubes are only sterile in closed packaging. After five years the shelf life expires even in closed packaging.

- ▶ Only open the packaging immediately before use.
- ▶ Observe the expiry date printed on the packaging.



**CAUTION! Risk of contamination when disposing of used consumables.**

- ▶ Dispose of used consumables in accordance with the substances with which they have come into contact.
- ▶ Observe the rules that apply to your laboratory.



**NOTICE! Material damage from incorrect use.**

- ▶ Only use the product for its intended purpose as described in the operating manual.
- ▶ Ensure adequate material resistance when using chemical substances.
- ▶ In case of any doubts, contact the manufacturer of this product.

## 2 Product description

### 2.1 Features

Eppendorf Conical Tubes 15 mL and 50 mL are equipped with a graduation as an indicator for the filling quantity and a labelling area for identification of the content.

## 3 Technical data

	<b>Eppendorf Conical Tubes 15 mL</b>	<b>Eppendorf Conical Tubes 50 mL</b>
Height	121 mm	116 mm
Diameter	17 mm	30 mm
Filling volume	15 mL	50 mL
Storage of aqueous samples at low temperatures: 80 % of the filling volume	12 mL	40 mL
▶ Always store the tubes in an upright position.		
Operational temperature	-86 °C – 100 °C	

### 3.1 Material and resistance to chemicals

Material	Tube: polypropylene Screw cap: high-density polyethylene (HDPE)
Chemical resistance	Refer to Application no. 56: <i>The best material for original Eppendorf Tubes® and Plates</i> at <a href="http://www.eppendorf.com">www.eppendorf.com</a>
Storage before use	<ul style="list-style-type: none"> <li>▶ Protect from direct sunlight and UV light.</li> <li>▶ Store dry at room temperature</li> </ul>

## Technical data

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#### 3.2 Centrifugation stability

The centrifugation stability of consumables generally depends on the following conditions:

- Properties of the consumable (e.g., material, shape)
  - Combination of centrifuge, rotor and, if applicable, adapter
  - Accuracy of fit of the consumable in the rotor bore or adapter
  - Centrifugation parameters (speed/*g*-force, temperature, centrifugation time)
  - Overall weight of consumable and contents
  - Physical and chemical properties of the centrifuged liquid
- ▶ Perform a test run to determine which conditions are suitable for your application.



#### **NOTICE! Consumables heat up.**

In uncooled centrifuges, the temperature in the rotor chamber, rotor and sample can increase to above 40 °C, depending on the run time, *g*-force (rcf)/speed and ambient temperature.

- ▶ Please note that this will reduce the centrifugation stability of the micro test tubes and plates.
- ▶ Please note the temperature resistance of the samples.



The mechanical strength of the tubes is reduced by the use of organic solvents. If in doubt, contact Eppendorf Application Support.

Eppendorf Conical Tubes 15 mL and 50 mL can be centrifuged at 19500 × *g* under the following conditions:

- Centrifugation temperature: 4 °C – 25 °C
- Using suitable rotors and, if necessary, adapters
- Centrifugation time: 90 min
- Sample: aqueous solution (density 1.0 g/mL)

#### 3.3 Eppendorf purity grades

Eppendorf Conical Tubes 15 mL and 50 mL are available with the following purity grades (tested per batch):

- Sterile (Ph. Eur./USP) and pyrogen-free (endotoxin-free), DNase-free, RNase-free, DNA-free
- Forensic DNA Grade
- PCR clean

Batch-specific certificates are available on the Internet at:  
[www.eppendorf.com/certificates](http://www.eppendorf.com/certificates).

#### 4 Ordering information

Order no. (International)	Order no. (North America)	Description
0030 122.151 0030 122.160	0030122151 0030122160	<b>Eppendorf Conical Tubes 15 mL</b> Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free, colorless 500 tubes (10 bags × 50 tubes) 500 tubes (20 racks × 25 tubes)
0030 122.194	0030122194	<b>Eppendorf Conical Tubes 15 mL, amber</b> Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free, amber (light protection) 200 tubes (4 bags × 50 tubes)
0030 122.259	0030122259	<b>Eppendorf Conical Tubes 15 mL</b> Forensic DNA Grade, colorless 100 tubes, individually wrapped
0030 122.178 0030 122.186	0030122178 0030122186	<b>Eppendorf Conical Tubes 50 mL</b> Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free, colorless 500 tubes (20 bags × 25 tubes) 300 tubes (12 racks × 25 tubes)
0030 122.224	0030122224	<b>Eppendorf Conical Tubes 50 mL, amber</b> Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free, amber (light protection) 200 tubes (8 bags × 25 tubes)
0030 122.267	0030122267	<b>Eppendorf Conical Tubes 50 mL</b> Forensic DNA Grade, colorless 48 tubes, individually wrapped
0030 122.208	0030122208	<b>DNA LoBind Tubes</b> DNA LoBind, 15 mL, conical tubes, PCR clean, colorless 200 tubes (4 bags × 50 tubes)
0030 122.232	0030122232	<b>DNA LoBind Tubes</b> DNA LoBind, 50 mL, conical tubes, PCR clean, colorless 200 tubes (8 bags × 25 tubes)
0030 122.216	0030122216	<b>Protein LoBind Tubes</b> Protein LoBind, 15 mL, PCR clean, colorless 200 tubes (4 bags × 50 tubes)
0030 122.240	0030122240	<b>Protein LoBind Tubes</b> Protein LoBind, 50 mL, PCR clean, colorless 200 tubes (8 bags × 25 tubes)

**Ordering information**

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English (EN)

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