eppendorf

Reaction vessels with snap cap

Eppendorf Tubes® BioBased

Instructions for Use

0012 595 562-00/2025-06

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1 About this manual

1.1 Notes on this manual

When using this product in combination with other products or devices, observe the relevant operating manuals. This document does not replace the instructions for use provided with other products or devices.

1. Before using the product, read this document in full.
2. Make sure that this document is available to you while using the product.

The dates in this manual comply with the international date format as specified in the ISO 8601 standard. All dates are shown in the format YYYY-MM-DD or YYYY-MM.

2 Safety

2.1 Intended use

Eppendorf snap cap tubes are products for general laboratory use designed for the preparation, mixing, centrifugation, transport, and storage of solid and liquid samples and reagents. They are intended for single use and for use in the lab by qualified laboratory personnel only.

2.2 Personal protective equipment

Personal protective equipment serves to ensure the safety and protection of the user when working with the product.

Personal protective equipment must comply with country-specific regulations and the regulations of the laboratory.

2.3 Residual risks when used as intended

If the product is not used as intended, the installed safety devices may not function correctly. To reduce the risk of personal injury and material damage and to avoid dangerous situations, please observe the general safety instructions.

2.3.1 Personal injury

2.3.2 Material damage

2.3.2.1 Incorrect handling

- Use the product only for the intended use described in the operating manual.
- Ensure sufficient material resistance when using chemical substances.
- If in doubt, contact the manufacturer of this product.

Incorrect handling of the reaction vessels can result in sample loss.

- Note the chemical resistance of the reaction vessels.
- Test the reaction vessels used for your workflow.

3 Product description

3.1 Features

Reaction vessels with Safe-Lock lid

Eppendorf Tubes have the following features:

- Single-use reaction vessels
- Reaction vessels with lid latch
- Labeling area
- Various volume sizes
- Graduation for the filling quantity
- Available in various purity grades
- Temperature resistance
- Centrifugation stability

Product versions

Eppendorf Tubes with Safe-Lock lid:

- Eppendorf Tubes 0.5 mL
- Eppendorf Tubes 1.5 mL
- Eppendorf Tubes 2 mL

4 Technical data

Storage before use	Protect from sunlight and UV light. Store in a dry place at ambient temperature.
Chemical resistance	See Application No. 56: The best material for original Eppendorf Tubes® and Plates at www.eppendorf.com
Operating temperature	-86 °C to 100 °C
Autoclavability	when opened 121 °C, 20 min

4.1 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.
– The mechanical strength of the tubes is reduced by the use of organic solvents. If in doubt, contact Eppendorf Application Support.

NOTICE!
In non-refrigerated centrifuges, the temperature in the rotor chamber, rotor, and sample can rise above 40 °C, depending on the run time, g-force (rcf) / speed, and ambient temperature.

– Note that this will reduce the centrifugation stability of the reaction vessels.
– Note the temperature resistance of the samples.

The tubes can be centrifuged at the maximum g-forces (RCF) listed in the table below under the following conditions:

- Centrifugation in a 45° fixed-angle rotor
- 40 °C sample temperature with aqueous saline solution (density ≤ 1.0 g/mL)
- Use of suitable centrifuge adapters
- Centrifugation time: maximum 90 min

Eppendorf Safe-Lock tubes

Purity grade	Volume size		
	0.5 mL	1.5 mL	2.0 mL
Eppendorf Quality	30,000 × g	30,000 × g	25,000 × g
PCR clean	30,000 × g	30,000 × g	25,000 × g

Product versions	Volume size		
	0.5 mL	1.5 mL	2.0 mL
BioBased	30,000 × g	30,000 × g	25,000 × g

4.2 Materials

Aggressive substances may damage components, consumables and accessories.

- Check chemical resistance before using organic solvents and aggressive chemicals.
- Check compatibility with the materials used.
- Only use liquids whose vapors do not attack the materials used.

Component	Material
Eppendorf Tubes	• Polypropylene (PP)

4.3 Minimum shelf life

The minimum shelf life date can be found on the packing. The minimum shelf life refers to the production date.

Purity grade	Minimum shelf life
Eppendorf Quality	at least 8 years
PCR clean	at least 5 years

4.4 Purity grades

The reaction vessels are available in the following purity grades and purity criteria.

Purity criterion	Eppendorf Quality	PCR clean
		
Eppendorf Tubes 0.5 mL	■	■
Eppendorf Tubes 1.5 mL	■	■
Eppendorf Tubes 2 mL	■	■

Certified batch testing is carried out for the following purity grades and purity criteria.
The certificates can be found online at: www.eppendorf.com/certificates.

Purity criterion	**Eppendorf Quality**	**Sterile**	**PCR clean**	**PCR clean + Sterile**	**Biopur**	**Forensic DNA Grade**
				 		
Human DNA-free	–		■	■	■	■
DNA-free (human bacteria DNA-free)	–				■	
DNase-free	–		■	■	■	■
RNase-free	–		■	■	■	■
PCR-inhibitors free	–		■	■	■	■
ATP-free	–				■	
Pyrogen-free (endotoxin-free)	–	■		■	■	
Sterile (Ph.Eur./ USP)	–	■		■	■	

5 Ordering information

The articles are sorted by product version and within the product versions by purity grade.

5.1 BioBased

Description	Order no.
Eppendorf Safe-Lock Tubes® BioBased 0.5 mL	
snap cap, 0.5 mL	
Eppendorf Quality, colorless, 1 bag × 500 tubes	0030 123 042
Eppendorf Quality, colorless, 1 bag × 500 tubes	0030 123 050
PCR clean, colorless, 1 bag × 500 tubes	0030 123 069
PCR clean, colorless, 1 bag × 500 tubes	0030 123 077
Eppendorf Safe-Lock Tubes® BioBased 1.5 mL	
snap cap, 1.5 mL	
Eppendorf Quality, colorless, 1,000 tubes (2 bags × 500 tubes)	0030 123 085
Eppendorf Quality, colorless, 500 tubes	0030 123 093
PCR clean, colorless, 1,000 tubes (2 bags × 500 tubes)	0030 123 140
PCR clean, colorless, 500 tubes	0030 123 158
Eppendorf Safe-Lock Tubes® BioBased 2.0 mL	
snap cap, 2.0 mL	
Eppendorf Quality, colorless, 1,000 tubes (2 bags × 500 tubes)	0030 123 166
Eppendorf Quality, colorless, 500 tubes	0030 123 174
PCR clean, colorless, 1,000 tubes (2 bags × 500 tubes)	0030 123 182
PCR clean, colorless, 500 tubes	0030 123 190

www.eppendorf.com

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