

Instructions for use

Eppendorf CryoStorage Vials™

English (EN)

1 Safety

1.1 Intended use

Eppendorf CryoStorage Vials are single-use polypropylene tubes for the safe storage of solid and liquid samples at low temperatures. The products can be used for training, routine and research laboratories in the areas of life sciences, industry or chemistry. The products can only be used for research purposes. Eppendorf provides no guarantee 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 Safety instructions



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 biosafety level of your laboratory, the material safety data sheets and the manufacturer's application notes.
- ▶ Wear your personal protective equipment.
- ▶ For comprehensive regulations about handling germs or biological material of risk group II or higher, please refer to the "Laboratory Biosafety Manual" (source: World Health Organization, Laboratory Biosafety Manual, the current edition).



WARNING! Risk to health from escaping substances.

The contents of the tube may escape if the tube lid is closed improperly.

- ▶ Only use visually perfect and undamaged tubes.
- ▶ Close the tubes correctly. Do not damage the thread in doing so.
- ▶ Observe the maximum filling volume.
- ▶ Make the necessary safety arrangements for transport or storage to prevent material escaping from the tube.
- ▶ Do not use the tubes in liquid nitrogen. The tubes can break while thawing if they have been frozen via liquid nitrogen.
- ▶ Store tubes only in the gaseous phase of the nitrogen. The operating temperature ranges from -196 °C to +100 °C.



CAUTION! Cryogenic burns due to liquid nitrogen.

Direct contact with liquid nitrogen can lead to cryogenic burns or severe frostbite. Eyes may be damaged due to splashing droplets.

- ▶ Observe the safety data sheet for liquid nitrogen.
 - ▶ Wear protective goggles and cold-protection gloves when handling liquid nitrogen.
 - ▶ Only touch the CryoStorage vials with cold-protection gloves or with tongs.
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WARNING! Risk of contamination from multiple use.

Consumables are intended for single use only.

- ▶ Use consumables only once.
 - ▶ Dispose of consumables directly after use.
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WARNING! Risk of contamination

Consumables are only sterile in sealed packaging.

- ▶ Please check that the packaging is undamaged.
 - ▶ Observe the expiry date printed on the packaging.
 - ▶ Only open the packaging immediately before use.
 - ▶ Only use visually perfect items.
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CAUTION! Risk of contamination when disposing of used consumables.

- ▶ After use, dispose of consumables in accordance with the substances with which they have come into contact.
 - ▶ Observe the your laboratory's regulations.
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NOTICE! Material damage due to incorrect use.

- ▶ Only use the product for its intended purpose as described in the operating manual.
 - ▶ Ensure adequate resistance of materials when using chemical substances.
 - ▶ If in doubt, contact the manufacturer of the product.
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NOTICE! Loss of information

- ▶ Missing or faulty barcodes can lead to sample loss or samples getting mixed up. The consequences of the loss of information must be assessed by the user.
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2 Product description

The Eppendorf CryoStorage Vials are provided with a visually readable code, a barcode and a SafeCode. The Eppendorf CryoStorage Vials are supplied in a closable rack. The rack also provides a visually readable code, a barcode and a SafeCode on the bottom for identification purposes.

3 SafeCode consumables

SafeCodes are ECC200 Data Matrix Codes (DMC) and are supported with additional information for documentation purposes via the Eppendorf DataPort. To read and process SafeCodes, a DMC-compatible reader and GS1-128-compatible software is required.

- Check your system's compatibility before using SafeCode consumables.

3.1 SafeCodes

The CryoStorage vials are encoded with the ep-unique ID SafeCode.

The ep-unique ID SafeCode is a number assigned by Eppendorf which is unique for each Eppendorf consumable.

Feature	ep-unique ID SafeCode				
Format	14x14				
Configuration	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 5px; text-align: center;"> ep-unique ID EQ12345678 </td> <td style="border: 1px solid black; padding: 5px; text-align: center;"> ep-unique ID ER12345678 </td> </tr> <tr> <td colspan="2" style="padding: 5px;">EQ + 8 digits or ER + 8 digits</td> </tr> </table>	ep-unique ID EQ12345678	ep-unique ID ER12345678	EQ + 8 digits or ER + 8 digits	
ep-unique ID EQ12345678	ep-unique ID ER12345678				
EQ + 8 digits or ER + 8 digits					
Availability	Ex stock				
Code type	Data Matrix, ECC200				
Uniqueness	Unique for each Eppendorf Consumable				
ISO standard	ISO/IEC TR29158				

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4 Technical data

Material	Polypropylene (colored, colorless)
Storage before use	Protect from sunlight and UV light. Store dry at room temperature.
Operational temperature	-196 °C – 100 °C
Autoclavability	Autoclavable

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.



NOTICE! Micro test tubes heat up.

In non-refrigerated centrifuges, the temperature in the rotor chamber, rotor and sample may 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.
- ▶ Please note the temperature resistance of the samples.



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

- Using suitable rotors and, if necessary, adapters
- Sample: aqueous solution (density 1.0 g/mL)

5 Ordering information

Order no. (International)	Description
0030 079.400	<p>CryoStorage Vials, 0.5 mL free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.418	<p>CryoStorage Vials, 1.0 mL free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.426	<p>CryoStorage Vials, 1.5 mL free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.434	<p>CryoStorage Vials, 2.0 mL free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.442	<p>CryoStorage Vials, 4.0 mL free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.450	<p>CryoStorage Vials, 0.5 mL sterile, free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.469	<p>CryoStorage Vials, 1.0 mL sterile, free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>
0030 079.477	<p>CryoStorage Vials, 1.5 mL sterile, free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials</p>

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0030 079.485	CryoStorage Vials, 2.0 mL sterile, free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials
0030 079.493	CryoStorage Vials, 4.0 mL sterile, free of DNase, RNase, human DNA, endotoxin; external thread, pre-capped gray, with 2D SafeCode (DataMatrix/ECC200), linear and human readable code individually packed racks, 10 x 96 vials