

Instructions for use

Wide-neck bottles

English (EN)

This document is a supplement to the operating manual of the centrifuge and not a replacement for it. Therefore, also read the operating manual of the centrifuge before using the rotors and accessories for the first time. The current version of the operating manual for all available languages can be found on our webpage www.eppendorf.com/manuals.

1 Safety



WARNING! Damage to health from toxic, radioactive or aggressive chemicals as well as infectious or pathogenic samples.

- ▶ Observe the national regulations for handling these substances.
- ▶ Dispose of reagents and contaminated materials in accordance with the regulations which apply to your laboratory.
- ▶ Make the necessary safety arrangements for transport and/or storage to prevent the materials in the bottle from escaping.
- ▶ Only use visually perfect and undamaged bottles.
- ▶ Replace bottles with cracks and milky discolorations immediately.
- ▶ Avoid reducing the mechanical strength of the bottles with aggressive chemicals. These include strong acids, chlorinated hydrocarbons, oils and organic solvents (e.g., phenol) and others.



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.
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2 Instructions for use

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2 Product description

The 400 mL, 500 mL, 750 mL and 1000 mL wide-neck bottles are plastic vessels for preparing, transporting, storing and centrifuging solid and liquid samples and reagents.


Wide-neck bottle	Centrifuge	Rotor	Bucket	Adapter
400 mL, blue lid	Centrifuge 5810/ 5810 R	A-4-81	Rectangular buckets	5810 728.002
	Centrifuge 5910 R	S-4x500		
400 mL, gray lid	Centrifuge 5910 R	S-4x400	Round bucket	5910 706.006
500 mL	Centrifuge 5810/ 5810 R	A-4-81	Rectangular buckets	–
	Centrifuge 5910 R	S-4x500		
750 mL	Centrifuge 5810/ 5810 R	S-4-104	Round bucket	5825 744.004
	Centrifuge 5920 R	S-4xUniversal- Large	Universal bucket	5920 741.004
	Centrifuge 5920 R	S-4x1000	Round bucket	5825 744.004
	Centrifuge 5910/ 5920 R	S-4x750	Round bucket	5825 744.004
	Centrifuge 5910 R	S-4xUniversal	Universal bucket	5910 757.000
1000 mL	5910 R	S-4xUniversal	Universal bucket	5910 756.003

3 Centrifuging

3.1 Inserting a wide-neck bottle

 Bottles that are filled too full may overflow.

1. Fill the material for centrifuging into the wide-neck bottle.
Observe the working volume of the wide-neck bottles.
2. Tightly close the screw cap.
If the screw cap is not firmly seated on the bottle, it may become loose during centrifugation. This may damage the centrifuge.
3. Insert the wide-neck bottle into the bucket.
4. Make sure that the buckets inserted in the rotor are properly balanced.

 Information on inserting the buckets can be found in the operating manual of the centrifuge.

3.2 Removing a wide-neck bottle

1. Remove the wide-neck bottle from the bucket.
2. Open the wide-neck bottle carefully.
Liquid can splash out when opening the bottle.

3.3 400 mL wide-neck bottle, blue lid

When centrifuging at high rotational speeds or high temperatures, push the supplied sleeve over the wide-neck bottle.

The 400 mL wide-neck bottle does not fit under the cap of the rectangular bucket for the rotor A-4-81.

3.4 400 mL wide-neck bottle, gray lid

The 400 mL wide-neck bottle (gray lid) can be centrifuged aerosol-tight in the S-4x400 rotor.

3.5 500 mL wide-neck bottle

The 500 mL wide-neck bottle can be centrifuged aerosol-tight.

3.6 750 mL wide-neck bottle

The adapter 5825 744.004 must be placed into the round bucket with the flat side up.

The 750 mL wide-neck bottle does not fit under the aerosol-tight cap of the round bucket for the rotor S-4-104 (Centrifuge 5810/5810 R).

The 750 mL wide-neck bottle can be centrifuged aerosol-tight in the round bucket of the S-4x750 rotor (Centrifuge 5920 R and 5910 R).

3.7 1000 mL wide-neck bottle

The 1000 mL wide-neck bottle can be centrifuged in an aerosol-tight manner in the rotor S-4xUniversal.

4 Cleaning/disinfection

4.1 Cleaning

1. Clean the wide-neck bottles with a neutral cleaning agent.
2. Rinse the wide-neck bottles with distilled water.

4.2 Disinfection

The wide-neck bottles are autoclavable (121 °C, 20 min).



Place the lids on the necks of the bottles before autoclaving and do **not** screw them tight.

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5 Technical data

5.1 Filling capacity for centrifugation

Nominal volume	Working volume
400 mL, blue lid	320 mL – 400 mL
400 mL, gray lid	320 mL – 400 mL
500 mL	400 mL – 500 mL
750 mL	600 mL – 730 mL
1000 mL	800 mL – 1000 mL

A density of 1.0 g/mL of the material for centrifuging must not be exceeded at maximum speed.

5.2 Temperature

Storage	Protect from direct sunlight and UV light. Store dry at ambient temperature.
Operating temperature for centrifugation, 400 mL, blue lid	4°C – 40°C
Operating temperature for centrifugation, 400 mL, gray lid	
Operating temperature for centrifugation, 500 mL	
Operating temperature for centrifugation, 750 mL	
Operating temperature for centrifugation, 1000 mL	4°C – 25°C

5.3 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.



Organic solvents reduce the mechanical strength of the tubes. If in doubt, contact Eppendorf Application Support.

Wide-neck bottle	Maximum <i>g</i> -force (in the swing-bucket rotor)
400 mL, blue lid	up to 3220 × <i>g</i>
400 mL, gray lid	up to 5200 × <i>g</i>
500 mL	up to 3220 × <i>g</i>
750 mL	up to 4816 × <i>g</i>
1000 mL	up to 4569 × <i>g</i>

6 Ordering information

Order no. (International)	Description
5810 729.009	Wide-neck bottle 400 mL, lid blue, for rotor A-4-81 400 mL, lid blue, set of 2
5820 707.003	Wide-neck bottle 500 mL, for rotor A-4-81 500 mL, rectangular, set of 2
5820 708.000	Wide-neck bottle 750 mL, for rotor S-4-104, rotor S-4x750 750 mL, set of 2
5910 706.006	adapter flat bottom, for rotor S-4x400, set of 2 for 400 mL wide-neck bottle with lid grey, 2 pieces
5910 707.002	wide-neck bottle 400 mL, lid gray, flat bottom, for rotor S-4x400, set of 2 400 mL with lid grey, 2 pieces
5910 756.003	adapter 1000 mL, flat bottom, for rotor S-4xuniversal, set of 2 for 1000 mL wide-neck bottle, 2 pieces
5910 770.006	wide-neck-bottle 1000 mL, flat bottom, rotor S-4xUniversal, universal buckets, set of 2 2 pieces