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APPLICATION

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Very efficient collection of sediment by means of the wide-mouth 1L bottle

R9AF2 carbon-fiber fixed angle rotor for high-speed refrigerated centrifuge
R7AF3 carbon-fiber fixed angle rotor for large-capacity refrigerated centrifuge

4 times as convenient, new 1L-bottle with wider mouth

The R9AF carbon-fiber fixed angle rotor for high-speed refrigerated centrifuge and the R7AF2 carbon-fiber fixed angle rotor for large-capacity refrigerated centrifuge have been upgraded to the R9AF2 carbon-fiber fixed angle rotor and the R7AF3 carbon-fiber fixed angle rotor respectively. Owing to this upgrading, the new **1000PP bottle (WM)** has been developed. It has a mouth 4 times wider than that of the conventional 1000PP bottle (2). Compared to the conventional bottle, the sediment after centrifugation can be more efficiently collected and the new wide-mouth 1L bottle is easier to wash.

1. Appearance



Fig.1 Side view of 1000PP bottle (WM) and 1000PP bottles (2)

Fig.1

Left: **1000PP bottle (WM)**

Right: 1000PP bottle (2)



Fig.2 Top view of 1000PP bottle (WM) and 1000PP bottles (2)

Fig. 2

Left: **1000PP bottle (WM)**

Diameter of mouth: **73 mm**

Right: 1000PP bottle (2)

Diameter of mouth: 38 mm

2. Example of centrifugation

Equipment used and centrifugal conditions

Centrifuge: CR-G series high-speed refrigerated centrifuge

Rotor: R9AF2 fixed angle rotor

Bottle: 1000PP bottle (WM)

Speed: 9,000 rpm

Maximum RCF: 15,200xg

Time: 60 minutes

Temperature: 20

Acceleration and deceleration: ACCEL mode "9", DECEL mode "5"

Amount of sample: 900 ml

Sample: Fine powder dispersed in water



Fig.3 Example of centrifugation for collection of sediment

3. 1000PP bottle (WM)

Part No.: S307700A (6 pcs./set)

Material: Polypropylene

Maximum actual capacity: 900 ml

Amount of sample: Optional up to 900 ml

Cap: 1000 cap (WM) (Part No.: S410870A (2 pcs./set), Material: Polypropylene)

Applicable rotor: R9AF2 and R7AF3 (Use of the 1000PP (WM) spacer (Part No.: S411272A) makes this bottle applicable to the R9AF and R7AF2 fixed angle rotors.)

Allowable imbalance: Maximum 6 g between the symmetrically arranged bottles in each rotor

For further information, please contact the personnel in charge of application in Life-Science Instruments Division, Hitachi Koki Co., Ltd. (Fax: +81-3-3226-7845).

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