SETON

Instructions for NanoBott™
Solvent Resistant Bottle for Ultracentrifugation

Seton PN: 4516
Rotor: Beckman 45Ti
Max Speed: 39KRPM
Volume: 50ml

(Preliminary)

INSTRUCTIONS FOR USE

1.1 The Nanobott bottle assembly consists of one black anodized aluminum cap, one Viton o-ring and one Delrin bottle.

1.2 Fill the bottle so that the meniscus is just under the cap or about 0.25" (7mm) down from the top of the bottle. The bottle must only be used full as partial fill volumes may cause collapse of the wall of the bottle. If the side wall collapses it will be very difficult to remove the bottle from the rotor hole. The full volume is necessary because the liquid contents support the wall of the bottle during centrifugation.

1.3 Inspect the underside of the black aluminum cap to see that the Viton o-ring is seated in the groove inside the cap. The groove is located above the internal threads of the cap.

1.4 Carefully screw the cap onto the white Delrin bottle. The threads are a very fine pitch and care must be taken to not cross-thread the cap. Screw the cap down until resistance is felt which means the top of the bottle has contacted the o-ring. Continue tightening about ¼ to 2/3 an additional turn until the cap feels tight.

1.5 Place the sealed bottle into the rotor hole.

1.6 After centrifugation thread the removal tool (PN 4270) into hole on the top of the cap and remove the bottle assembly from the rotor.

1.7 Remove the cap from the bottle to access contents.

1.8 Because this is a prototype bottle it is recommended that a run be made first with water.

1.9 It is understood that initial use of these bottles will be at 4 deg C, 15 minutes, 35KRPM with methylene chloride. Do not store methylene chloride in these bottle assemblies. Continuous long-term contact of methylene chloride may cause corrosion of the aluminum caps and swelling of the Viton o-rings. Short term exposure such as 15 minutes during a run will not cause problems. DO NOT AUTOCLAVE OR USE A DISHWASHER TO CLEAN THE DELRIN BOTTLE.