

# Johns Hopkins Bayview Medical Center

## GENERAL CLINICAL RESEARCH CENTER

Cryo Freezing Containers (rate reducing freezer)

Policy No. 156

Original Date: 11/14/02  
Previous Date: None  
Reviewed Date: None

Purpose: to outline the correct usage and procedure for Cryo Freezer Containers

Definitions: Cryo 1°C Freezing Container is a reusable device for freezing biological samples at the recommended rate of cooling -1°C/minute in preparation for long-term storage. The container can handle temperature to -130 °C.

Procedure:

### Preparation of Freezing container

Formatted

1. Remove high-density polyethylene vial holder and foam insert from polycarbonate unit. Do not discard the foam insert
2. Add 100% Isopropyl alcohol (250 ml) to fill line. Do not overfill.
3. Carefully replace foam insert and vial holder

1. **Use of Device** Use Biohazard protective equipment and freezer protective gloves in handling specimens in or out of the container, as the situation requires.
2. Place vials containing sample into holes in vial holder.
3. Place unit in freezer. If using in -70°C freezer, leave undisturbed for a minimum of 4 hours. The specimen will gradually become frozen.
4. Remove vials from unit and place in a permanent, long term storage freezer (e.g. -70°C or below).
4. The vial holder floats with vials in place and can be used as a floating rack when thawing samples

Formatted

Deleted: ¶

### Storage and Cleaning

1. Store at room temperature when the containers are not use.
2. Replace alcohol every 5<sup>th</sup> use or when fluid volume is lower than the fill line with the insert removed.
3. To Clean
  - a. Soak the device in non-alkaline detergent for 3 hrs, then gently wash with cloth or sponge
  - b. Do not use abrasive cleaners or scouring pads

Reference: Nalgene Lab Catalog and Website

Originator: GCRC Patient Care Manager

\_\_\_\_\_  
Pamela Ouyang, MD  
GCRC Program Director

\_\_\_\_\_  
Cindy Walters RN, MSN  
Director of Maternal Child Health and Research  
Nursing, Manager of Ambulatory Oncology Services