

CellHome-30 Introduction for Use



Description

CellHome-30 alcohol-free cell freezing container holds 30 1 ml or 2 ml cryogenic vials and provides a highly reproducible $-1^{\circ}\text{C}/\text{minute}$ freezing rate when used in a -80°C freezer. No alcohol or any other fluids required. Unique patent-pending micro-convection design takes in cold freezer air through a bottom intake port, evenly distributes the cold air around all vials, then releases warm air through the top port. The insulative outer housing and thermo-conductive core ensure consistent heat removal to all vials throughout the freezing period. CellHome-30 containers are unbreakable, open easily when frozen, and are not cold to the touch when frozen - no "frosty" fingers.

Introduction for use

- Locate and reserve a clear space in a -70°C to -80°C freezer that is at least 9 inches in diameter. Make sure that there is not an accumulation of frost on the shelf space as this may interfere with the proper airflow during the freezing process. The freezer will need to remain closed for at least 3 hours during the freezing process. Check with associates to ensure that temporarily restricted access will not conflict with their requirements.
- If the CellHome-30 container has been recently used, it is recommended that the parts be disassembled to check for accumulated moisture. The bottom vent can easily be removed from the base. Inserting a finger through the base vent hole, push out the alloy diffuser plate and thoroughly dry the plate and inner base chamber. Make sure the base vent is dry.
- Insert the base vent into the foam base from the underside.
- Insert the top vent chock into the foam lid from the top side of the lid.
- Insert alloy diffuser plate into the base cavity. The diffuser plate is reversible and cannot be inserted incorrectly. Ensure that the plate is all the way at the base of the chamber.
- Insert the plastic FTS Vial Module into the base and make sure that the skirt of the module is evenly seated on the foam shelf. Place 30 cryovials containing 1ml of freezing medium into the module. Alternatively, the FTS Vial Module may be filled with vials remotely and then placed into the CellHome-30 base.

Additional Notes

- CellHome-30 is designed to achieve the ideal freezing rate of $-1^{\circ}\text{C}/\text{minute}$ and ensure consistent heat removal to all vials throughout the freezing period.
- Some freezing protocols require that the cells be chilled prior to freezing. CellHome-30 may be used with cells beginning at any temperature between 0°C and 4°C , however it is recommended that the entire CellHome-30 module be pre-equilibrated to the vial temperature to prevent a rise in vial temperature.
- Place the lid onto the CellHome-30 base making sure that the mating surfaces form a complete closure.
- While supporting the CellHome-30 base, transfer the unit to the freezer space previously selected for the freezing process. Make sure that nothing is sitting on the top of or can fall onto the top of the CellHome-30 module. Close and latch the freezer door.
- It is recommended that a notice be placed on the freezer door requesting that the door not be opened during the freezing process as opening the door during the freezing process may cause a deviation in the highly repeatable freezing profile. Allow a minimum of 3 hours for the freezing process. CellHome-30 will approach the final equilibrium temperature within 4 hours.
- Always use dry ice to transfer cryovials containing cells to permanent storage to avoid temperature rise and cell damage. Cryovial contents can rise from -80°C to over -50°C in less than one minute if exposed to room temperature air.
- It is strongly recommended that all frozen cell cultures be checked for viability before the stock culture is terminated.

Care and cleaning

CellHome-30 container is constructed of Hi-tech material and a solid thermo-conductive core. CellHome-30 container is compatible with prolonged cryogenic temperature exposure. The foam may be cleaned by water and mild soap. Rinse and dry thoroughly. CellHome-30 container is resistant to alcohols and 10% bleach solutions. Do not autoclave. Maximum temperature exposure: 60°C . Avoid prolonged exposure to UV light sources.