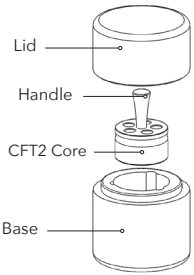
ThawSTAR®

CFT2 Transporter

Instructions for Use

Function and Description

ThawSTAR® CFT2 Transporter is a portable solution for the handling and transport of frozen vials from long-term storage in vapor phase liquid nitrogen or in a -80°C freezer to downstream processing with the ThawSTAR Automated Cell Thawing System. The transporter is comprised of an outer insulative foam lid and base, and an internal round CFT2 Core that accommodates up to five 1.8 or 2.0 mL cryogenic vials.



Use As Intended

ThawSTAR System and ThawSTAR CFT2 Transporter is for research or further manufacturing use.

Product Components

The ThawSTAR CFT2 Transporter (Item No. AST-602) contains the following components:

Item	Quantity	Photo
ThawSTAR® CFT2 Transporter, base and lid	1	
CFT2 Core with handle	1	

Unpacking

If you are missing any components, please contact BioLife customer service at +1-866-424-6543 or info@biolifesolutions.com.

Specifications

ThawSTAR® CFT2 Transporter base and lid	
Dimensions (Diameter x Height)	11.4 x 15.0 cm (4.5 x 6.0 in)
Composition	Highly insulative cross-linked, closed cell polyethylene foam
Dry ice used	~100 g
Holding temperature	<-70°C
Holding time (lid on)	>1 hour
CFT2 Core with handle	
Vial capacity	Up to five 1.8 to 2.0 mL cryogenic vials
Composition	Thermo-conductive metal alloy

Operating Instructions

1. Add dry ice pellets to the foam ThawSTAR® CFT2 Transporter base, filling approximately 1/3 full. Place CFT2 Core on top of dry ice in the center. Check to ensure the lid seats firmly in the base. Allow 20 minutes for the CFT2 Core to equilibrate.

   ⚠ **CAUTION:** *Direct skin contact with dry ice or metal components that have been touching dry ice can cause freezing injury. Always use appropriate protective equipment for eyes and skin when handling dry ice and cold metal components. NOTE: Ensure that no dry ice gets into the wells of the CFT2 Core. Dry ice in the well may lodge into the bottom cavity of a self-standing cryogenic vial, which is not desirable.*

2. Remove frozen cell vials from storage (LN2 or -80°C freezer) and immediately transfer to the temperature-equilibrated CFT2 Core. If the vials were stored in LN2, allow the vials to equilibrate in the CFT2 Core for 10 minutes to reach dry ice temperature. If the vials were stored in -80°C, no equilibration time is necessary.
3. Quickly remove 1 vial from the CFT2 Core and insert into the ThawSTAR System by gently placing it into the opening; allowing the vial to settle in vertically, then depressing the top of the tube. The thaw will begin immediately and the system will automatically calculate the thaw time (approx. 2 - 3 minutes). Remain in close proximity to the ThawSTAR System so the vial can be retrieved immediately when the thaw is complete. *NOTE: Complete thawing instructions can be found in the ThawSTAR Automated Cell Thawing System Instructions for Use.*
4. When the thaw is complete, the system will give audio and visual signals and raise the vial approximately 1 cm. Remove the vial, and immediately proceed.

Care and Cleaning

The ThawSTAR® CFT2 Transporter base and lid is constructed of cross-linked, closed-cell polyethylene foam. The material has excellent resistance to fluid absorption and abrasion. Do not use the ThawSTAR CFT2 Transporter base for pulverizing dry ice. All components including foam housing and CFT2 Core are compatible with repeated and prolonged cryogenic temperature exposure. The ThawSTAR CFT2 Transporter base and lid is resistant to alcohols and 10% bleach solutions. Cleaning only requires water and mild soap. Rinse and dry thoroughly. Do not autoclave. Maximum temperature exposure: 60°C. Avoid prolonged exposure to UV light sources.

Customer Service Information

Contact BioLife Solutions technical support at + 1-866-424-6543 or info@biolifesolutions.com for assistance.

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