ThawSTAR®

Water Bath



## Automated, water-free vial thawing systems

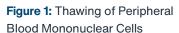
SAFE THAWING FOR CRYOPRESERVED BIOLOGIC MATERIALS



ThawSTAR® Automated Thawing Systems were designed to provide a water-free, uniform, and reproducible warming profile for frozen biologics suspended in various primary containers. The ThawSTAR technology provides sensor-based thawing algorithms designed to deliver consistent thawing outcomes.

## **ADVANCED THAWING VALUE:**

- Automation and standardization ThawSTAR products ensure consistent thawing results with reproducible algorithms designed to eliminate manual processing.
- Reduced contamination exposure ThawSTAR solutions are 100% water-free, eliminating sample contamination risks often associated with water baths and other thawing systems.
- Programmed precision For optimizable ThawSTAR models, thawing algorithms may be customized to the specific container and biologic. Qualified BioLife technicians will tailor the program to maximize thaw outcome.
- Qualifiable ThawSTAR Systems are qualifiable and can be scaled into end point of use facilities.



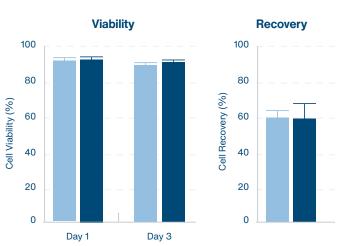




Figure 1: Cell viability (left panel) and recovery (right panel of PBMC were measured using trypan blue exclusion on a hemacytometer. Recovery is the number of viable cells post-thaw as a percentage of the pre-freeze viable cells. No statistical difference in viability (2-way ANOVA with post hoc Sidak test) or recovery (unpaired two-tailed t-test) at p<0.05 were found. Data courtesy of Dr. Mars Stone at the Blood Systems Research Institute.





## Available in various models to support R&D, commercial manufacture, and end point of use.

















Product Family	ThawSTAR® CFT		ThawSTAR® CSV		ThawSTAR® AT			
Product Name	ThawSTAR CFT1.5	ThawSTAR CFT2	ThawSTAR CSV2	ThawSTAR CSV5	ThawSTAR AT1	ThawSTAR AT2	ThawSTAR AT6	ThawSTAR AT10
Compatible Vials	Nalgene® 5000 – 1020	Most major vial manufacturers	2.0mL CellSeal® Vials	5.0mL CellSeal® Vials	1.0mL Aseptic Technologies Closed Vial®	2.0mL Aseptic Technologies Closed Vial®	6.0mL Aseptic Technologies Closed Vial®	10mL Aseptic Technologies Closed Vial®
Fill Volume	0.5 – 1.5mL	0.8 – 1.5mL	1.0 – 2.0mL	2.5 – 5.0mL	1.0mL	0.5 – 2.0mL	2.0 – 5.0mL	4.0 – 8.0mL
Thaw Time	<3 mins	<3 mins	<3 mins	<3 mins	3 - 8 mins, varies by vial size	3 - 8 mins, varies by vial size	3 – 8 mins, varies by vial size	3 - 8 mins, varies by vial size
Dimensions (Diameter x Height)	11.0 x 14.5cm (4.3 x 5.7in)	11.0 x 14.5cm (4.3 x 5.7in)	10.9 x 14.5cm (4.3 x 5.7in)	10.9 x 14.5cm (4.3 x 5.7in)	11.0 x 14.5cm (4.3 x 5.7in)			
Compliance	CE mark (IEC61326 and IEC61010), RoHS, WEEE							
Voltage	US, EU, UK							
Input/Output Voltage	AC 100 - 240V, 50-60Hz/ 12V DC, 5.0A							
Power Rating	12V DC, 3.0A							



## Additional ThawSTAR® Transporters

ThawSTAR Transporters were designed specifically to move ultracold samples from their long-term storage freezers to the thawing system. Comprised of an insulative foam layer and lid with space for dry-ice and various samples, ThawSTAR Transporters are an ideal temporary holding solution until all samples have been thawed and processed. Not compatible with CellSeal vials.



Contact **SalesOne@biolifesolutions.com** for more information or to place an order.



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