ThawSTAR™

Automated Cryogenic Vial Thawing System

ThawSTAR™ cryogenic vial thawing system addresses the last gap in the cryopreservation workflow, replacing insufficient methods of thawing such as swirling samples in communal water baths and warming samples between hands - methods that are not standardized and potentially jeopardize the integrity and safety of the sample.

No water.
Replaces communal water bath

No hands.
Intuitive operation, insert vial and wait

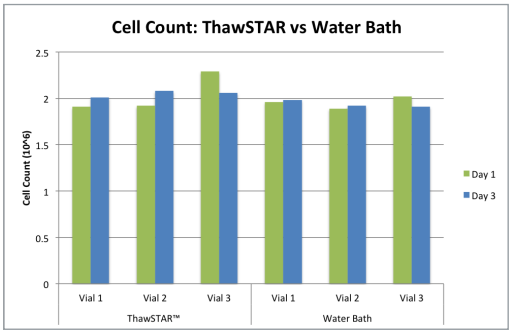
No guessing.
Automated STAR™ sensing technology employs multiple detection mechanisms to determine vial temperature, phase change initiation and thaw completion

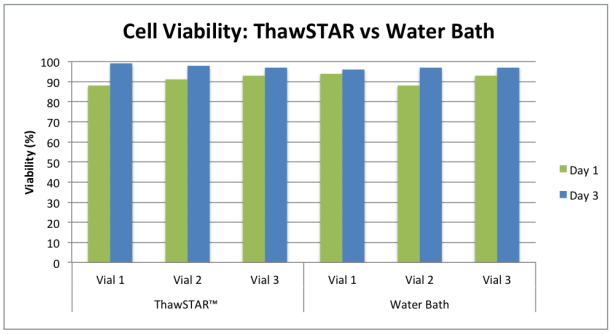
ThawSTAR automated thawing system incorporates patent-pending STAR™ sensing technology for standardized thawing and recovery. Hands-free operation eliminates the guess work and subjectivity of determining the thawing end point. Simply insert one standard 2.0 mL cryogenic vial and wait. When thaw is complete, vial is gently raised, enabling immediate removal for downstream processing. Highly reproducible thermal profiles mirror those obtained from a water bath without the variability and risk of contamination. Accepts vials from LN2 storage or -80°C freezers.

How It Works

ThawSTAR™ sample thawing system is an intuitive, error-free method for achieving reproducible thawing and recovery results. Simply insert a frozen cryogenic vial and retrieve it when the vial is gently raised at the end of the thaw cycle. The automatic release of the vial coupled with built-in audio and visual alarms allow quick removal of the thawed vial for downstream processing and minimize the risk of toxicity from cryopreservatives, such as DMSO. ThawSTAR thawing system was engineered to deliver results comparable to those achieved when thawing a frozen vial in a 37°C water bath, but with reproducibility and standardization built in. Its small footprint enables easy incorporation into a laboratory or clinical setting.

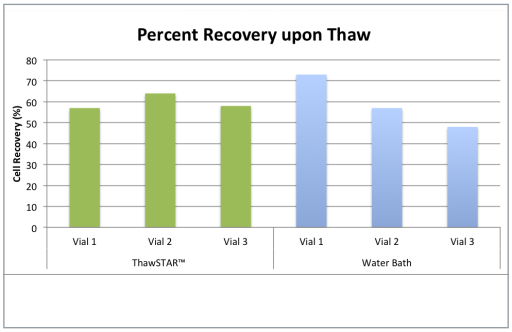
ThawSTAR™ Performance Data

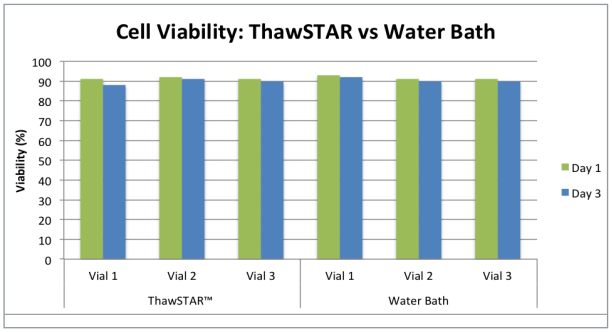




K562 cell line. After LN2 storage, 3 vials were thawed via the conventional water bath and ThawSTAR™ automated system. Cell counts and viability were measured immediately post-thaw (Day 1) and after 3 days growth (Day 3). The ThawSTAR system shows equivalent cell counts and viability to current methods.

Data generated by MD Anderson Cancer Center.





PBMC. After long term LN2 storage, 3 vials were thawed via the conventional water bath and ThawSTAR™ automated system. Cell counts and viability were measured immediately post-thaw (Day 1) and after 3 days growth (Day 3). ThawSTAR showed equivalent percent recovery with lower variation vial-to-vial while eliminating the possibility of contamination from communal water baths.

Data generated by Blood Systems Research Institute.

Ordering Information

Item No.	Description
BCS-601	ThawSTAR™ cryogenic vial thawing system, universal voltage with US plug
BCS-604	ThawSTAR™ cryogenic vial thawing system, universal voltage with EU and UK plugs

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