

BioArchive[®] System

Precise and dependable
stem cell preservation, tracking, and retrieval.

- *Computer controlled*
- *Precise freezing rate*
- *Robotic storage and retrieval*
- *3,600+ sample capacity*
- *Sample management software*



The BioArchive® Cryopreservation, Tracking, and Retrieval System is the industry's leading liquid nitrogen cryopreservation and storage system for stem cell samples. Using proven, computer-controlled technology, it provides the ultimate in performance and protection for today's invaluable cord blood samples, and tomorrow's critical stem cell needs. Which has made BioArchive the preferred system for cord blood banks worldwide.



Housed in thermally efficient stainless steel canisters, the sample first undergoes a precise controlled rate freeze (CRF).



Once it reaches the user-defined target CRF temperature, the frozen sample is robotically transferred to a permanent storage address in liquid nitrogen.

ThermoGenesis Corporation
2711 Citrus Road
Rancho Cordova, CA 95742
Toll-free: 800.783.8357(US/Canada)
Direct: 916.858.5100
Fax: 916.858.5199

For ordering information, contact your local distributor or visit us at: www.thermogenesis.com

CONSISTENT TEMPERATURE CONTROL. Robotic storage and retrieval provides remote, closed-system sample handling, minimizing exposure and transient warming events (TWE).

PRECISE SAMPLE FREEZING. Three-dimensional, 25mL, dual-compartment molded (DCM) freezing bag and teflon overwrap for accurate, uniform freezing rates.

SECURE HANDLING. Magnetic stainless steel canisters firmly house the overwrapped DCM freezing bags, enabling precise robotic insertion/retrieval from liquid nitrogen.

OPTIMIZED CELL VIABILITY. Over 94% post-thaw cell viability, when used in conjunction with the AXP™ AutoXpress™ Platform.*

SYSTEM INTEGRITY. Built-in thermal tracking, data management features, and automated safeguards provide ongoing confidence.

OPERATOR SAFETY. Robotic functions reduce exposure to liquid nitrogen.

COST-EFFICIENCIES. Two integrated controlled-rate freezers with patented thermodynamic technology help increase laboratory efficiency while reducing liquid nitrogen usage, equipment, and labor costs.

ACCURATE RECORD KEEPING. Sample Management System (SMS) software provides bar code sample tracking, sample history, and inventory control.

COMPLIANCE ASSISTANCE. Software helps comply with cGMP and cGTP requirements.

*Data provided by New York Blood Center.

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