

At ThermoGenesis, we understand that the first step in the process is often the most important. That's why we have created novel and innovative technologies aimed at advancing cell therapies to the clinic. Contact ThermoGenesis to see how we can improve your process.

X-LAB® SYSTEM ORDERING INFORMATION

Product Description	Catalog Number	Quantity
X-LAB System Start-Up Kit	80089	1
System Includes:		
• X-LAB Control Modules		
• X-LAB Docking Station		
• X-Counterweight (High, Medium, Low)		
• X-Balance Ring Kit		
• X-SERIES™ DataTrak Software		
X-LAB Control Module	80067	1
X-LAB Docking Station	80069	1
X-SERIES™ DataTrak Software	370376	1
X-LAB Disposable Cartridge	80084	2/box
	80083	12/box
	80060	36/box
X-Counterweight Kit	80091	1
X-Counterweight High	80080	1
X-Counterweight Medium	80079	1
X-Counterweight Low	80073	1
X-Balance Ring Kit (2.5g and 7.5g)	80074	20/box

COMPLETE SYSTEM SOLUTION



The X-LAB System includes the Control Module, Docking Station, X-SERIES DataTrak Software, Disposable Cartridge and associated accessories.

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

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



X-LAB® System

A Ficoll-free, fully automated closed system for rapid isolation and enrichment of cells from various clinical sources.



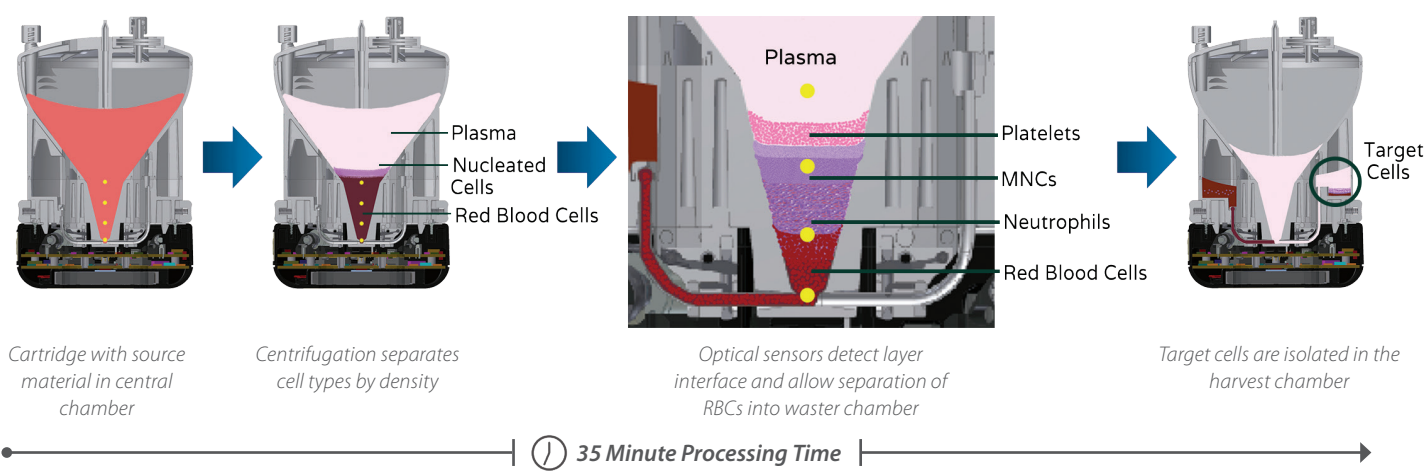
Current cell isolation methods can be labor intensive, highly variable and lead to poor yields and/or viability. Many of these methods require the usage of chemicals to enable the isolation and harvest of target cells.

X-LAB PROVIDES A SOLUTION

- Consistent High Recovery (>90%) of Viable Cells
- Sterile, Single-Use, Functionally Closed System
- Specific Target Cell Selection
- Additive-Free
- Sedimentation-Based Harvest System

The X-LAB System is designed to separate and harvest target cell populations from blood and blood products in a closed, sterile device. Customizable process programming, automated separation of samples, and highly sensitive infrared sensors help ensure consistent, reliable, efficient, high-recovery results. Process data can be downloaded to ThermoGenesis' DataTrak software to provide process monitoring and reporting information.

HOW IT WORKS



THE THERMOGENESIS ADVANTAGE

Feature	X-LAB System
Customized Protocols	Yes
Process Volume	40 to 240 mL
Harvest Volume	Programmable (3 to 40 mL)
Average Process Time	35 minutes*
Traceability	Barcode tracking of supplies and process steps electronically
Density Gradient Media Required	No
MNC/CD34+ Recovery	97%
Closed System	Yes, using sterile single-use cartridges

* Depending on source material

SYSTEM PERFORMANCE

MONONUCLEAR CELL (MNC) PREPARATION FROM PERIPHERAL BLOOD

Peripheral blood was processed using the X-LAB System with no Ficoll addition, in 35 minutes of processing.

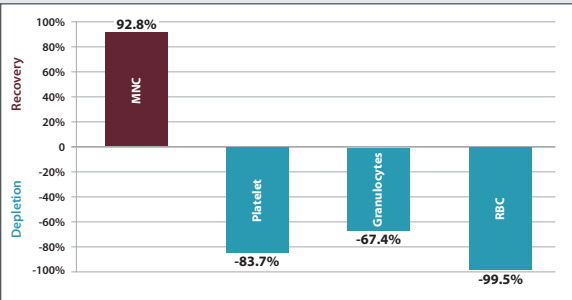
By selective programming of the control module, MNC selection and red blood cell (RBC), platelet and granulocyte depletion are possible with short processing times.

CD34+ AND CD45+ RECOVERIES AND VIABILITIES FROM BONE MARROW CONCENTRATE WITHOUT FICOLL

Five hour old Bone Marrow Concentrate from 12 donors were processed, with no Ficoll, on the X-LAB system at the University of California, Davis in 20 minutes.

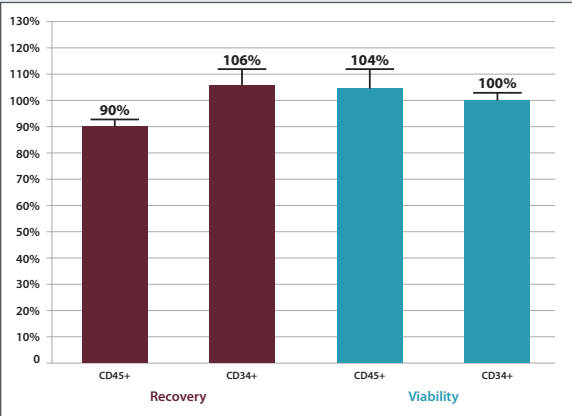
Without the usage of Ficoll, virtually all of the critical cells are recovered with little impact on viabilities.

X-LAB PROCESSING PERFORMANCE



MNC Preparation from Peripheral Blood

CD45+/CD34+ RECOVERY AND VIABILITY



CD34+ and CD45+ Recoveries from Bone Marrow Concentrate (n = 12)

Data on file.