

At ThermoGenesis, we understand the importance and the quality of the patient's precious cells. Therefore, we have developed the PXP system to obtain bone marrow concentrates easily, consistently, and reliably from bone marrow aspirates at the point-of-care.

THE THERMOGENESIS ADVANTAGE

Feature	PXP System
Process Volume	60 mL
Harvest Volume	5-8 mL
Average Process Time	20 minutes
Traceability	Barcode tracking of supplies and process steps electronically
MNC/CD34+ Recovery	> 85%
RBC Reduction	> 99%
Closed System	Yes

PXP® SYSTEM ORDERING INFORMATION

Product Description	Catalog Number	Quantity
PXP Control Module	80065	1
PXP Docking Station	80066	1
DataTrak Software	370376	1
PXP Disposable Cartridge	80088	2/box
	80087	12/box
	80063	36/box
X-Counterweight Low	80073	1
X-Balance Ring Kit (2.5g and 7.5g)	80074	20/box

COMPLETE SYSTEM SOLUTION



The PXP System includes the Control Module, Docking Station, DataTrak Software, Disposable Cartridge and associated accessories.

For ordering information, contact your local distributor or visit us at: [www.ThermoGenesis.com](http://www.ThermoGenesis.com)

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



PXP® System

Enhancing the isolation of bone marrow concentrate and removal of unwanted red blood cells using a quick automated process.



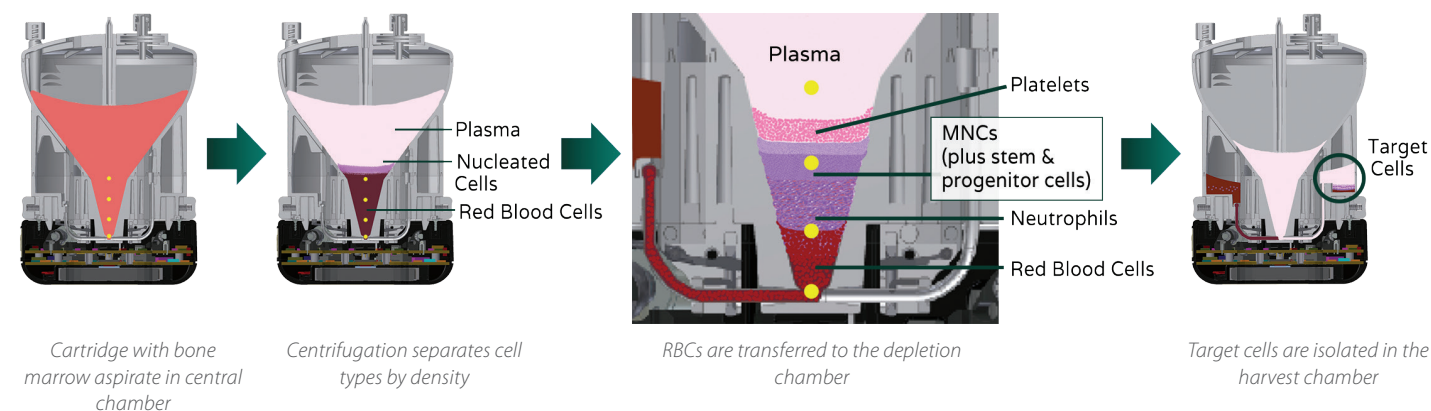
Automated systems for processing bone marrow aspirates have advanced over the years, however the quality of the concentrates is still negatively impacted by red blood cell (RBC) contamination despite being optimized for high cell recoveries.

PXP PROVIDES A SOLUTION

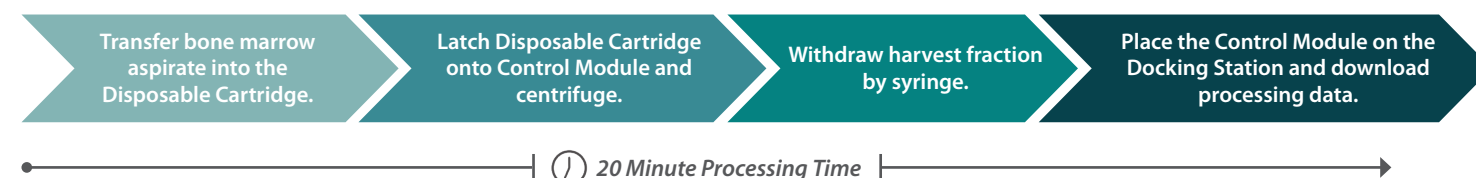
- Consistently High MNC and CD34+ Recoveries
- Greater than 99% RBC Depletion
- Rapid Concentration of Bone Marrow Aspirate in Less than 20 Minutes
- Automated, Closed and Sterile System
- Quick and Accurate Data Tracking and Documentation

The PXP System is a closed automated system that harvests a precise volume of cell concentrate from a bone marrow aspirate sample with extremely low RBC contamination. Its ability to achieve consistently high MNC and CD34<sup>+</sup> recoveries in less than 20 minutes, along with negligible RBC contamination, sets this system apart from its competitors.

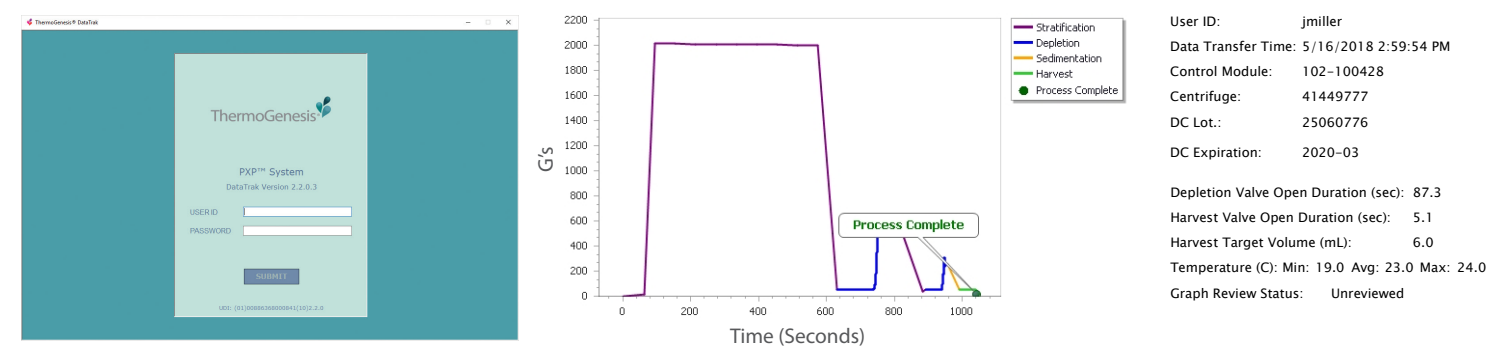
## HOW IT WORKS



## PROCESS FLOW



## DATATRAK PROCESSING REPORT



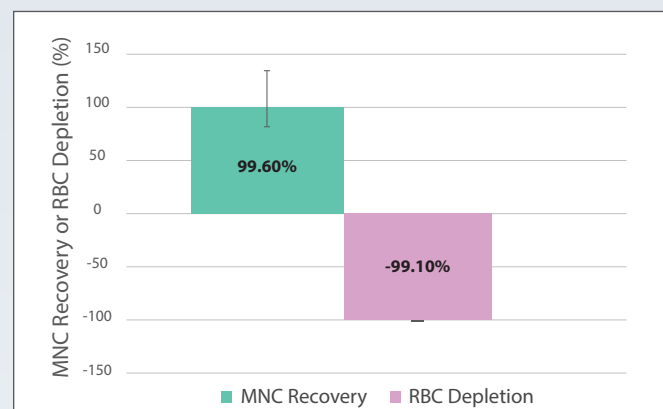
## SYSTEM PERFORMANCE

Five anti-coagulated bone marrow samples were drawn from individual donors and processed using the ThermoGenesis PXP System. All samples were drawn less than 8 hours prior to processing and a 60 mL input volume was loaded into each PXP Disposable Cartridge. The cartridges were then latched onto a PXP Control Module programmed for BMC isolation, loaded into a centrifuge containing round swinging buckets, and processed.

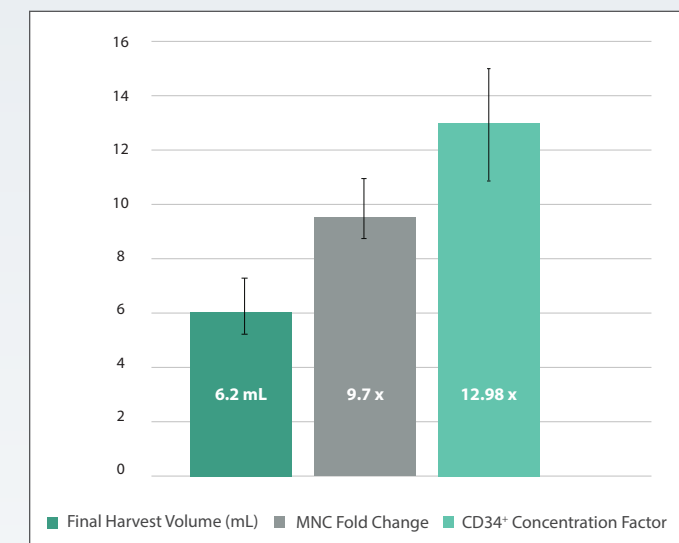
**CENTRIFUGE PROFILE:**

G Force	Duration	Description
2000	8.5 minutes	Stratification of bone marrow into packed RBCs, cell concentrate, and plasma layers
50	2 minutes	Bulk of the RBCs are depleted
500	2 minutes	Further stratification of the cells in main chamber
50	1 minute	Depletion of remaining RBCs to depletion chamber
250	30 seconds	Sedimentation of the cell concentrate prior to harvest
50	1 minute	Cell concentrate is transferred to harvest chamber, leaving bulk of plasma in the main chamber

### MNC RECOVERIES AND RBC DEPLETION FROM POST SAMPLES



**FINAL HARVEST VOLUME (ML), MNC FOLD CHANGE,  
CD34<sup>+</sup> CONCENTRATION FACTOR**



Data on file.