

At ThermoGenesis, we know the value of preserving cord blood stem cells and that there is only one chance to get it right. For over 20 years, we've dedicated ourselves to providing cord blood banks, hospitals, researchers, and clinicians, with systems designed to handle stem cells with the highest levels of precision, safety, and confidence.

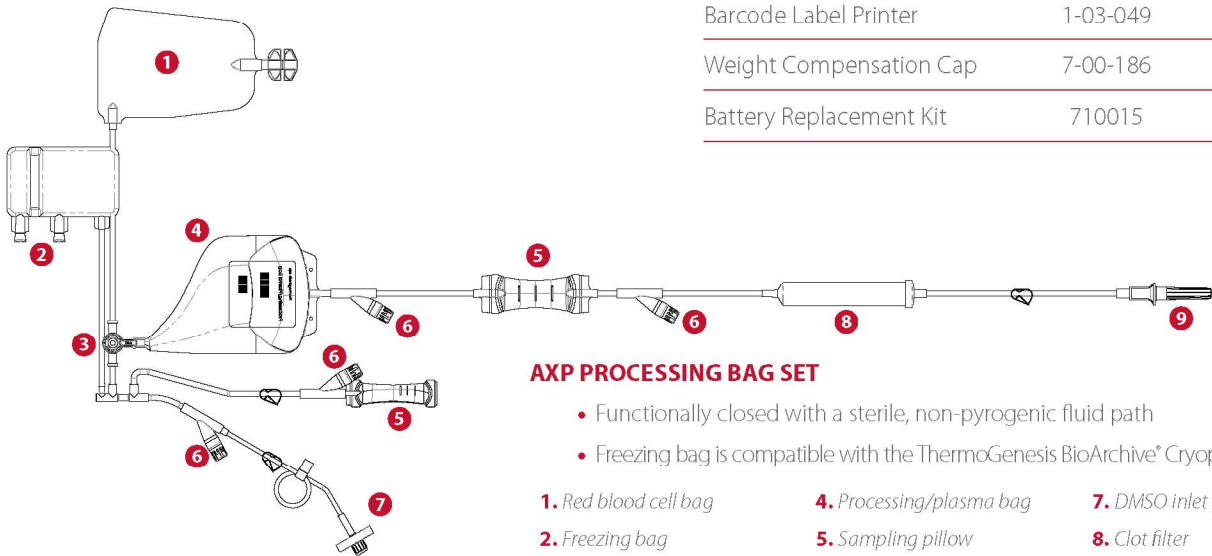


AXP® II ORDERING INFORMATION

AXP II System	Catalog Number	Quantity	AXP Accessories	Catalog Number	Quantity
Startup Kit	8-5100	1	Freezing Bag Labels	8-5124	1000/roll
Device	80056	1	Canister Label	8-5121	2500/roll
Docking Station	80055	1	Counterweight	8-5104	1
XpressTRAK® Software	80062	1	Wireless Barcode Scanner	8-5106	1
Consumables			Device Stand	8-5108	1
Processing Bag Set	8-5101	24/box	Weight Set	8-5109	1
Quality Control (QC) Bag Set	8-5110	10/box	ABC Switch Box	8-5120	1
			Component Retaining Clip	8-5148	1
			Centrifuge Bucket Adapter		
			101-102mm Round Bucket	8-5113	2/box
			Sorvall 11754/11297 Buckets	8-5114	2/box
			Bucket Pad, Sorvall 11754 Bucket	8-5155	2/box
			Spacer, 12.7mm	80026	2/box
			Barcode Label Printer	1-03-049	1
			Weight Compensation Cap	7-00-186	1
			Battery Replacement Kit	710015	1

*The AXP II Startup Kit Includes; Device stand, XpressTRAK Software, Weight Set, Counterweight, Operator and Maintenance Manual, Wireless Barcode Scanner, and Component Retaining Clips.

1. Data on file.
2. Rubenstein P. Cord blood banking for clinical transplantation. Bone Marrow Transplantation 2009;44:635-642.



AXP PROCESSING BAG SET

- Functionally closed with a sterile, non-pyrogenic fluid path
- Freezing bag is compatible with the ThermoGenesis BioArchive® Cryopreservation System

1. Red blood cell bag

2. Freezing bag

3. Valve
4. Processing/plasma bag

5. Sampling pillow

6. Sampling site
7. DMSO inlet filter and tubing

8. Clot filter

9. Transfer spike

1. Data on file.
2. Rubenstein P. Cord Blood banking for clinical transplantation. Bone Marrow Transplantation 2009;44:635-624

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

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Rancho Cordova, CA 95742
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AXP® II System

Precision cord blood processing, stem cell harvesting, and data tracking.



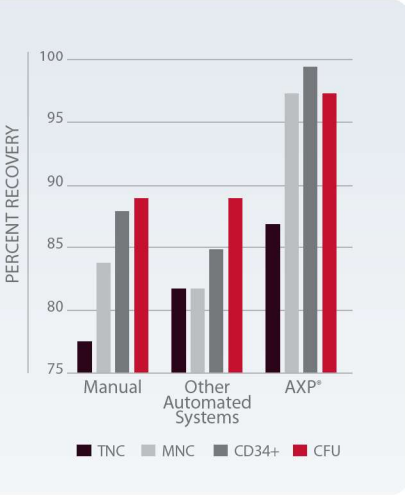
CONSISTENT STEM CELL RECOVERIES. VERIFIABLE TRACKING.

The AXP II System is an automated, functionally closed, sterile platform that consistently and efficiently processes the stem cell-rich buffy coat from umbilical cord blood. The system reduces a unit of cord blood to a precise volume selected by the operator and does so with precision, safety, and confidence.

- Ensures high recoveries of mononuclear cells (MNC) in a targeted volume
- Simultaneously processes multiple cord blood units
- Automates the volume reduction process
- Secures standardization of the freezing process
- Designed for easy and economical scalability

At ThermoGenesis, we have combined our extensive technological experience in stem cell processing and separation. The AXP II System has been designed to provide high-quality stem cell concentration from cord blood. So when you are processing cord blood samples, using the AXP II System, you can be confident that you are isolating and saving the highest concentration of stem cell rich buffy coat while retaining their viability.

CELL RECOVERY COMPARISON¹



HIGH YIELDS. VIABLE CELLS.

- Reliable collection of all fractions: buffy coat, red blood cells (RBC), and plasma
- Viable CD34⁺ stem cell recovery is regularly > 97%, higher than other available systems²
- Cord blood units (CBU) processed with AXP are richer in MNC than units conventionally processed having similar total nucleic cells (TNC)¹
- Hematocrit is consistently < 30% in final storage volume
- Precise delivery of target final volume¹

UNCOMPROMISING SAFETY. QUALITY RESULTS.

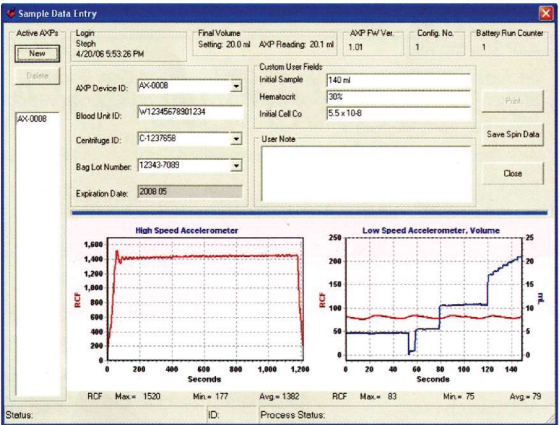
- Utilizes a functionally closed processing set
- Separate collection bags for buffy coat, plasma, and RBC
- Integrated sampling pillows for pre- and post-processing sterile sample collection
- Multiple options to transfer cord blood from collection bag - such as spike port or sterile weld tubing
- In-line clot filter and multiple sampling ports
- Integrated DMSO inlet filter and tubing



COMPLETE SYSTEM SOLUTION
The AXP II System includes the AXP II Device, Docking Station, Processing Set, XpressTRAK Software, and accessories.

EFFICIENT AUTOMATION. PERSISTENT QUALITY CONTROL.

- Tracks and documents data specific to each cord blood unit processed
- Captures sample processing data for quality assurance and compliance with current good tissue practices (cGTP) and good manufacturing practices (cGMP)
- Stores processing data in a searchable, sortable database
- Customizable data fields and reports



DOCKING STATION

- Recharges the device battery
- Provides communication link between AXP II Device and the computer workstation for sample data download

AXP II SYSTEM: THE STEPS OF PROCESSING AND HARVESTING STEM CELL RICH BUFFY COAT FROM CORD BLOOD



STEP 1. Transfer the cord blood to the AXP Processing Bag Set and collect a pre-processing sample in the sampling pillow.



STEP 2. Load the Processing Bag Set into the AXP II Device.



STEP 3. Spin the AXP II Device in the centrifuge to separate and harvest the stem-cell rich buffy coat.



STEP 4. Remove the Processing Bag Set, and place the AXP II Device into the Docking Station to download the processing data using XpressTRAK Software.



STEP 5. Collect a post-processing sample, add cryoprotectant to the buffy coat, seal the freezing bag and place the final sample in an overwrap bag and canister for storage in the BioArchive System.