

Lovo[®] Automated Cell Processing System

Precise closed-system cell washing and volume reduction With data driven insights and reporting powered by DXT[®] Data Management System





Leukapheresis Wash²

Cultu

Culture Harvest & Media Exchange³



Thawed Wash & DMSO Removal⁴

Immunomagnetic Selection Prep¹



Scan Here or Visit chooselovo.com to Learn More

Lovo supports your unique selection prep, thaw wash, or harvest wash processes.

Immunomagnetic Selection Prep¹

Remove platelets, incubate with beads, and remove unbound beads in a single procedure for fast and automated processing



Fresh Leukapheresis Wash²

Remove platelets with precision and resuspend your cells in a preferred buffer for any custom manufacturing process



Culture Harvest & Media Exchange³

Volume-reduce or exchange media for your expanded products with high cell recoveries and washout efficiency



Thawed Wash & DMSO Removal⁴

Wash cryopreserved products to remove DMSO and resuspend cells in your preferred buffer or culture media



Increase operational efficiency

Cells continually flow in and out of Lovo's spinning membrane module, minimizing overall processing time. Lovo handles source volumes up to 22 L and processes a standard apheresis product in approximately 11 minutes.³

Increase product consistency and quality

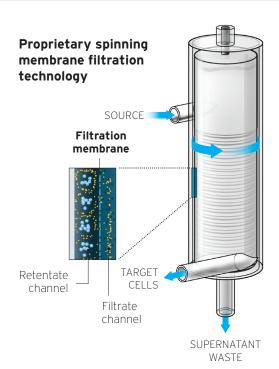
Capture precisely the cells you need, optimizing recovery while maintaining viability – even for fragile cells. The membrane's 4µm pores enable >98% TNC recovery and <2% decrease in viability when targeting 99.9% supernatant removal.³

Customize specific protocols to support your cell therapy manufacturing needs

Lovo's software has been designed to support your unique processes and technologies. Up to 10 protocols can be saved on the device and each wash cycle may be customized even further.

Choose filtered to further your goals.

Whether you're focused on early stage trials or ramping up to full commercialization, Lovo's spinning membrane filtration technology enables fast, precise, and flexible procedures that help increase your lab's overall operational efficiency and processing consistency without compromising product quality.² You can rely on Lovo and the Fresenius Kabi team to work with you to address your lab's biggest challenges in developing cutting-edge cell therapy manufacturing solutions.



The Partnership of Data & Compliance

DXT for use with the Lovo Cell Procesing System



Electronically transfer procedure record data: Anytime, Anywhere Access

DXT is a Data Management Software application designed to receive, store and transmit procedure information

DXT System Requirements

Operating System

Database Management

Information is transferred from Lovo to the DXT Data Management Software via a wired or wireless connection and can then be transferred to your external systems

Windows Server 2019

SQL Server 2019

Additional System Features

Supports 21 CFR

Part 11 compliance

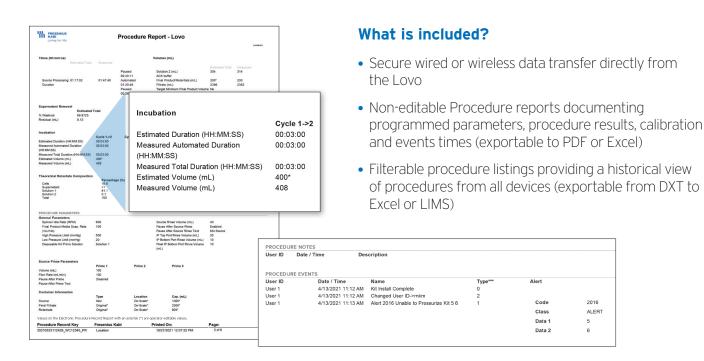
- LIMS interface compatible
- Technical support provided by Fresenius Kabi team

System (DBMS)ExpressProcessor2 cores @ 2.3 GHz4 cores @ 2.3 GHzMemory8 GB16 GBDisk Size*500 GB SSD500 GB SSD

Windows 11 Pro

SQL Server 2019

* The disk size requirements will depend on organizational data retention policy for data immediately accessible through DXT.



Instrument features

Cell types

Fresh, cryo-preserved, and culture-expanded white blood cells, including, but not limited to, leukapheresis CD34+ cells, CAR T-cells, TILs, NK cells, and MSCs

Volume range	
Source	Up to 22 L
Output ¹	50 mL - 50 L

Wash-out range

Up to 99.9999%²

System components

73 lb, 35.3" x 17.6" x 24.5" (W x D x H) benchtop instrument

Single-use processing kit with spinning membrane module

¹ Actual lowest achievable volume will depend on cell type, cell concentration, and source volume.

² Based on theoretical wash-out from system estimator. Actual lowest achievable volume will depend on cell type, cell concentration, and source volume.

References

- 1. LOVO 2.X Blood Run Protocol Report: 223-DER-048957 Data on file at Fresenius Kabi USA.
- LOVO 2.X Product Quality Test Results Design Review: 223-DER-048958 Data on file at Fresenius Kabi USA.
- Lovo New Membrane Cultured Cell Testing Results: 223-DER-066723 Data on file at Fresenius Kabi USA.
- 4. B.Mfarrej, et al. Pre-clinical assessment of the Lovo device for dimethyl sulfoxide removal and cell concentration in thawed hematopoietic progenitor cell grafts. Cytotherapy, Volume 19, Issue 12, 1501-1508.



Code	Item	Quantity
6R4900	Lovo Cell Processing System	N/A
X6R4909A	Lovo Cell Processing Disposable Kit with Bag Access - $4\mu m$ (Compatible with Lovo software version 3.0 or greater)	6 units/case
X6R4906A	Lovo Cell Processing Disposable Kit - $4\mu m$ (Compatible with Lovo software versions 2.0 or greater)	6 units/case
X6R4930	Lovo Cell Processing Kit - 0.8µm	6 units/case
X6R4902	Lovo Ancillary Bag Kit	20 units/case
X6R4907	Lovo Pouch Kit	6 units/case
X6R4917	Lovo Valve and Filter Disposable Kit	6 units/case
YM020	20mm Vialok® Vented Vial Access Device	100 units/case

The Lovo Cell Processing System is for laboratory use only and may not be used for direct transfusion. Appropriate regulatory clearance is required by the user for clinical use.

Refer to the Lovo Cell Processing System Operator's Manual, DXT Administrator's Guide and DXT User's Guide for a complete list of warnings and precautions associated with the use these products.

For additional information, please visit **chooselovo.com**

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