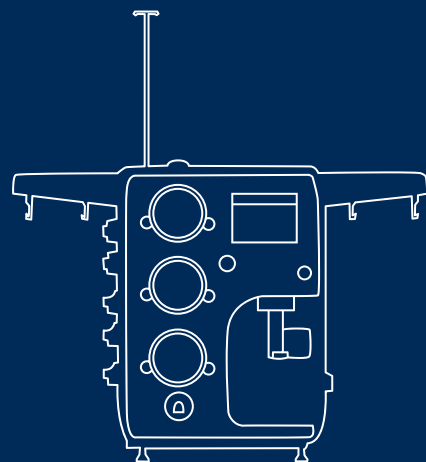


MEDICAL DEVICES DIVISION

Laboratory Instruments

LOVO

AUTOMATED LABORATORY
CELL PROCESSING SYSTEM



**FRESENIUS
KABI**

caring for life

LOVO

The smartest way to wash white blood cells

LOVO is a cell processing system to wash differentiated and undifferentiated white blood cells for laboratory and research use. It is designed to offer a simple, fast and automated method to remove supernatant, add and reduce volume in a fully closed system*.

Higher flexibility and efficiency in cell washing through automation and standardization

- AutoDilution program provides automatic dilution while processing based on configurable parameter like source cell concentration, mean cell volume, and source volume to prevent cell loss
- Adjustable source volume ranges between 100 ml and 7.4 L**
- Final volume can be set from 50 ml to 5 L**
- 99 % supernatant reduction of 200 ml source product in average less than 7 min¹

*If solutions are attached using a sterile connection device

**Depending on source concentration and volume

Solution Pole

Weigh Scales

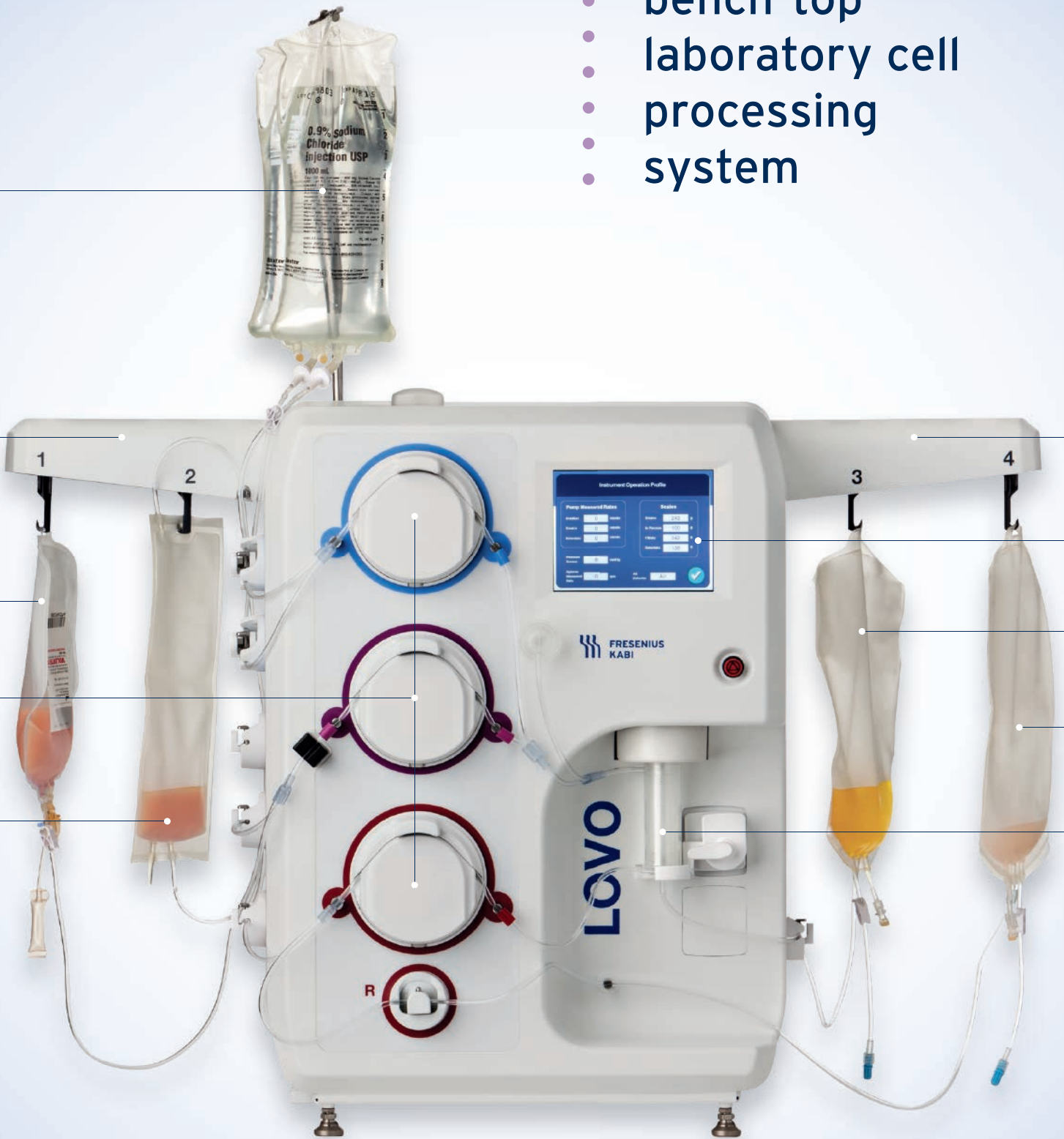
Source Bag

Pumps

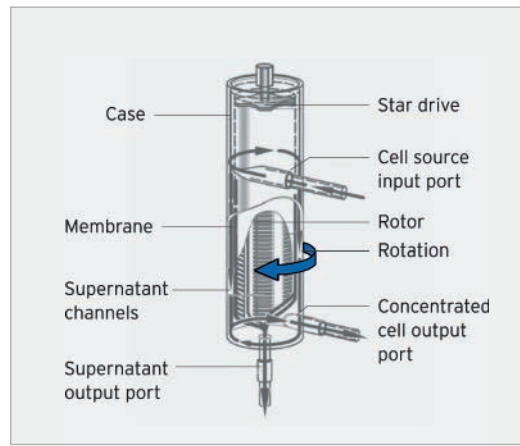
In-Process Bag

LOVO

Easy-to-use
bench-top
laboratory cell
processing
system



A smart spin for soft cell processing and swift cell recovery without pelletizing



LOVO
proprietary
spinning
membrane
filtration
separation
device

Weigh Scales

Touch Screen

Filtrate Bag

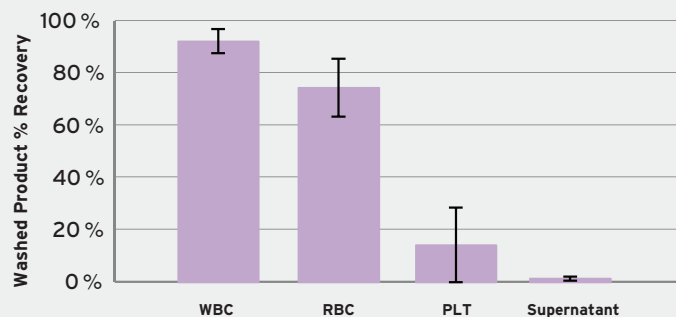
Retentate Bag

Spinning
Membrane
Separation
Device

Preserving the quality of your cell product by spinning membrane for gentle filtration

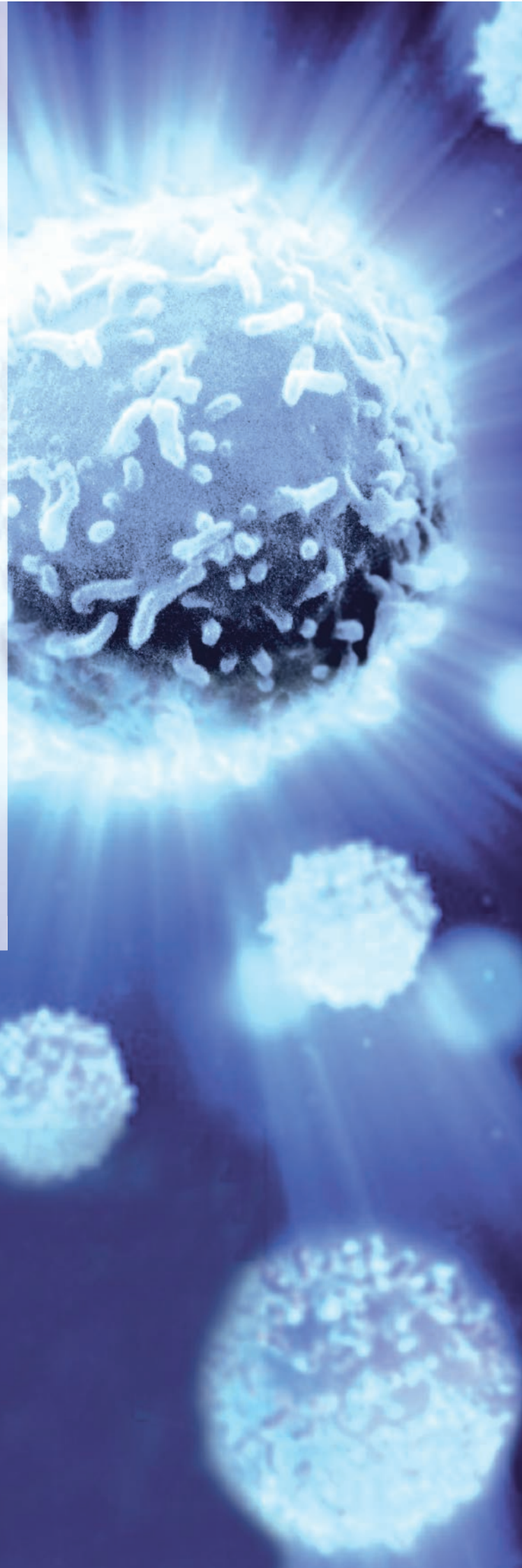
- Volume removal and addition without cell pelletizing
- Post-wash white blood cell recovery is about 90 %¹
- Optimal white blood cell recovery¹
- Lymphocyte proliferation characteristics are not affected¹
- High platelet depletion (platelet wash)¹

Mean spinning membrane post-wash recoveries of fresh PBMC - Peripheral Blood Mononuclear Cells (n=22)¹



Benefits

- Standardization of cell washing in a one-step process
- Automated system
- Time saving compared to centrifugation
- Maintenance of cell viability through non-pelletizing process
- High cell yield
- Flexible volume range for source and end product
- Data transfer via USB stick



Ordering information

For more information such as literature, technical details, working instructions, as well as equipment, please contact your local sales representative or call us directly.

ORDER NUMBERS

6R4900	LOVO Instrument
X6R4901	LOVO Cell Washing Disposable Kit. 20/case, Shelf Life: 24 months
X6R4902	LOVO Ancillary Bag Kit. 20/case, Shelf Life: 24 months

Sterile disposables are for research purpose.

TECHNICAL DATA

Weigh Scales	4 weigh scales measuring between 0-2,5 kg of volume (in "on" scale mode)
Power Supply	100 - 240 V, 2 - 4 A, 50 - 60 Hz, 480 W
Dimensions	50,8 x 45,7 x 67,3 cm (W x D x H)
Weight	34 kg
Processing Volume Range	Source: 100 ml - 7.4 l*/Output: 50 ml - 5l*
AutoDilution	Automatic dilution while processing to prevent cell loss based on source characteristics and procedure setup

LOVO is a laboratory instrument CE-marked under Low Voltage Directive (2006/95/EC), EMC Directive (2004/108/EC), RTTE Directive (1999/5/EC) and is in compliance to IEC 61010 2nd ed. and IEC 61326 2nd ed.

REFERENCES

1. Wegener C, Heber C, Min K (2013). Novel Cell Washing Device Using Spinning Membrane Filtration. *Cytotherapy*. 15(4) S27, Abstract 86



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