

CellStore Harv CELL PROCESSING SYSTEM

Simplifying cell harvesting and washing workflows for modern cell therapy manufacturing.

CellStore Harv is a highly automated and multifunctional cell processing system designed for research, process development, and manufacturing in cell and gene therapy (CGT), vaccine production, and antibody manufacturing workflows.

The system integrates a high-performance centrifugation module, intelligent control software, and dedicated single-use kits to enable efficient, closed, and standardized cell processing operations.



Power On



Load Kit



Cell Concentration



Washing



Formulation

Key Advantages

· Fully Automated Workflow

From sample loading to centrifugation, washing, media exchange, and final cell collection, the entire workflow is fully automated with minimal operator intervention, improving batch-to-batch consistency and reducing contamination risks.

· High Processing Performance

CellStore Harv utilizes a high-performance centrifugation module combined with precision peristaltic pumps, supporting:

Maximum relative centrifugal force (RCF): $4,000 \times g$

Maximum flow rate: 1,000 mL/min

Processing volumes up to 200 L

The system is designed to maintain excellent cell viability and recovery rates throughout the process.

· Flexible Process Configuration

Up to 120 user-configurable parameters support flexible process development and customized workflows for different cell types and manufacturing requirements.

· Closed & Sterile Single-Use System

Dedicated single-use kits provide a fully closed and sterile processing environment. Automated integrity testing using pressure decay monitoring can be performed before, during, and after operation to ensure process safety and product protection.

· Designed for GMP Environments

CellStore Harv supports comprehensive operation logging, audit trail functionality, and multi-level user access management. The system is designed to support GMP-oriented workflows and facilitate 21 CFR Part 11-aligned data management.

Applications

Cell Harvesting

Media Exchange / Cell Washing

Magnetic Bead Incubation

Cryopreservation Medium Exchange

Antibody Harvest & Clarification

Single-use Kit



Performance Data

Cell Type	Starting Volume	Initial Viability	Post-Process Viability	Recovery Rate
MSC	10L	93.4%	97.3%	92.1%
NK	30L	95.0%	94.9%	93.5%
T cells	5L	97.2%	98.0%	98.5%
CHO	100L	95.1%	97.4%	98.0%

Data shown are representative internal test results. Performance may vary depending on cell type, process parameters, and starting material quality.

Technical Specifications

Specification	Detail
Dimensions	625 × 611 × 735 mm
Weight	75 kg
Power Supply	220 V / 50 Hz / 1 kW
Operating Temperature & Humidity	5 °C ~ 40 °C / 0% ~ 85% RH
Max. RCF	4,000 × g
Max. Flow Rate	1,000 mL/min
Temperature Control	Liquid-cooled centrifuge chamber (standard)
Kit Integrity Test	Pressure decay method
Data Output & Upload	USB export / ProfiNet real-time data upload
External Control	Optional built-in Wi-Fi for remote control via external PC or iPad

Ordering Information

Product	Cat. No.	Description
CellStore Harv Cell Processing System	CS-HARV-01	Main instrument for automated cell harvesting and concentration workflows. Consumables are sold separately.
Single-Use Cell Harvest Kit – 275 mL	CS-H-275	Single-use consumable kit for use with the CellStore Harv Cell Processing System. Main instrument not included.
Single-Use Cell Harvest Kit – 100 mL	CS-H-100	Single-use consumable kit for use with the CellStore Harv Cell Processing System. Main instrument not included.