CellFAB One Series

All-in-One Fully Automated Cell Therapy Development & Production Systems

Unlock fully automated, GMP-ready cell processing workflows with the CellFAB One Series, easily tailored and configured to your application needs.

Whether you're running small-batch autologous or large-scale allogeneic workflows, our all-in-one automation platform gives you the flexibility to define and adapt your protocols, without compromising on consistency, traceability, or throughput.

System Overview

The CellFAB One Series is a fully integrated, closed-system platform developed to automate the complete cell therapy workflow — from initial sample preparation through formulation and final fill. Consolidating unit operations into a single system minimizes contamination risk, enhances reproducibility, and supports clinical and commercial readiness. By supporting a wide range of sample types and customizable protocols, the **CellFAB One** platform enables consistent, high-quality cell processing with minimal manual intervention and reduced operational complexity.

- **Flexible & Customizable Workflows** support multiple cell types, starting materials, and protocols, with adjustable parameters for incubation, culture, and transduction
- **Scalable Manufacturing** offers tailored capabilities with flexible future expandability
- **Freedom to Operate** with royalty-free use, open protocol access, and no restrictive licenses
- **Fully Enclosed, Single-Use Consumables** maximize sterility and de-risk transitions between batches
- **Block based UI** enables easy protocol optimization
- **Compliance by Design** with robust user controls, secure audit trails, and 21 CFR Part 11 for regulatory readiness

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Product Description

The **CellFAB One Series** is a next-generation, automated, closed-system platform for efficient cell manufacturing. It supports PBMC separation, magnetic bead selection, activation, genetic modification, expansion, washing, formulation, and filling, all on one platform. Pre-sterilized kits reduce contamination, and clean room needs, while automation minimizes error and variability for consistent results from development to commercial production. The **CellFAB One Series** delivers end-to-end cell manufacturing.

Product Advantages

Seamless Closed Automation

Interactive system design reduces manual operation time by 70-90%, minimizes human error and batch failure risk, and ensures seamless transitions between process steps.

Customized Design

Users can customize and modify process parameters. Sampling steps can be added as needed while maintaining a closed environment that meets Grade C cleanroom standards. The software allows parameter adjustment based on standard or user-defined process templates.

Optimized Compatibility

The system supports a variety of sample types, cell culture methods, and process routes, with customizable configurations, consumables, and workflows.

Lower Costs

Closed, sterile, single-use consumables reduce facility and operational costs by up to 90%. This decreases infrastructure, labor, and training expenses while improving yield and scalability.

Tighter Containment

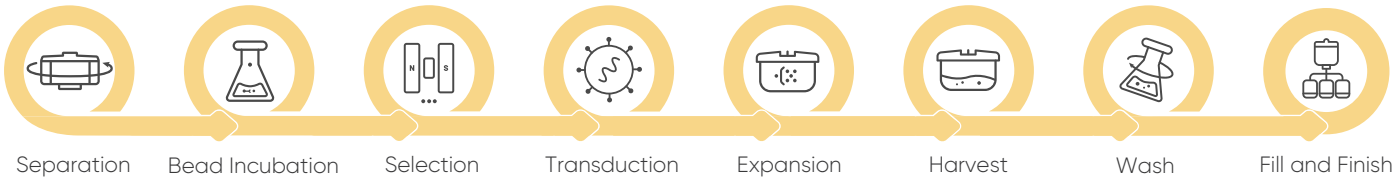
The fully closed and integrated consumable design enables complete process control from the initial material loading to final cell formulation and filling. The configured consumable kit allows complex processing within a sterile environment, minimizing contamination risks and ensuring reproducibility.

Higher Reliability

Fully automated, closed-system processing minimizes contamination risk and operator variability, delivering repeatable performance across scales. Integrated workflows and pre-sterilized, single-use consumables ensure consistent, reproducible results from process development through commercial manufacturing.

Fully Automated Cell Processing Workflow

The **CellFAB One Series** offers end-to-end automation with unmatched flexibility. Select from a range of systems designed for activation and isolation, media exchange, and formulation.



Model Comparison

The **CellFAB One Series** is a suite of fully automated, all-in-one, GMP-ready cell processing systems designed to streamline complex workflows in cell and gene therapy manufacturing. Each model, E, I, M, N, and MN, offers tailored capabilities to meet diverse clinical and commercial needs, from bead-free processing to advanced magnetic bead sorting and removal.

Features	Model				
	CellFAB One E	CellFAB One M	CellFAB One N	CellFAB One MN	CellFAB One I
Comments	Serves as the foundational core of the CellFAB One Series. Standalone use and seamless integration.	Micro-sized bead sorting, and high-performance magnetic bead removal (<100 beads/3E6 cells).	Nano-bead sorting, including positive and negative selection.	Nano-sized bead sorting and ability to remove micro-sized beads used for activation.	Universal culture module supporting various culture processes and cell types.
PBMC Isolation	√	√	√	√	√
Leukopak/PBMC Washing	√	√	√	√	√
Beads Incubation	×	√	√	√	×
Magnetic Beads Sorting	×	Micro-sized Beads	Nano-sized Beads	Nano-sized Beads	×
Activation	√	√	√	√	√
Viral Transduction	√	√	√	√	√
Expansion	In-chamber	In-chamber	In-chamber	In-chamber	Adapted for culture bags, flasks, etc.
Bead Removal	×	√	×	√	×
Cell Washing	√	√	√	√	√
Cell Harvest	√	√	√	√	√
Filling and Formulation	√	√	√	√	√

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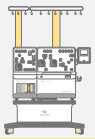
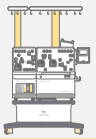
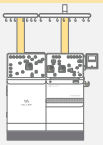
Product Specifications	CellFAB One E	CellFAB One M	CellFAB One N	CellFAB One MN	CellFAB One I
					
System Specifications					
Dimensions (W × H × D)	835×1720×724 mm (32.87″×67.72″×28.50″)	1155×1723×724 mm (45.47″× 67.83″×28.50″)	1155×1723×724 mm (45.47″×67.83″×28.50″)	1155×1723×724 mm (45.47″×67.83″×28.50″)	1316×1723×724 mm (51.81″×67.83″×28.50″)
Weight	80 kg (176.37 lb)	152 kg (335.10 lb)	150 kg (330.69 lb)	152 kg (335.10 lb)	180 kg (396.83 lb)
Power Specifications					
Electrical Input	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz	100–240 VAC, 50/60 Hz
Power Consumption	450 VA	900 VA	900 VA	900 VA	900 VA
Uninterruptable Power Supply	Facility integrated UPS recommended				
Interface Specifications					
Display	10.1" TFT capacitive touchscreen				
USB Ports	2 ports				
Connectivity	Ethernet port with 100 Mbit/s				
Gas System					
Gas Control	CO_2, compressed air, and optional O_2 mixing system				
Gas Pressure	CO_2: 100–300 kPa (0.1–0.3 MPa)				
Gas Termination on Gas Line	ϕ4 OD PU tubing				
Gas Consumption	CO_2: 2.88 L/day				
Main Unit Specifications					
Operating System	Linux operating system				
Software	Workflow automation, real time monitoring, data logging				
Peristaltic Pumps	Flow rate: 10–400 mL/min				
Centrifuge Force	Up to 420g				
Centrifuge Chamber Temperature Control	4℃–38℃ (39.2°F–100.4°F)				
Sensors and Valves	Pressure, liquid level, temperature, leakage, and weight sensors, bag hooks, solenoid valves				
Standard Accessories	Barcode scanner × 1, Mobile base × 1				
Consumables	Single-use, fully closed consumable kit				
Operating Conditions					
Minimum Ambient Temperature	15℃ (59°F)				
Maximum Ambient Temperature	30℃ (86°F)				
Relative Humidity	30% – 75%				
Environmental Considerations					
Airflow	Avoid direct airflow from vents onto the equipment				
Electromagnetic Compatibility	Must be installed in an environment free from electromagnetic interference				
Leveling	Equipment must be installed on a level surface within ±0.5°				
Maximum Altitude	2000 m				
Maximum Atmospheric Pressure	70 KPa – 106 KPa				

All-in-one Solution for Custom Cell Therapy Development & Production

CellFAB One E

Foundational core for fully automated cell processing without magnetic selection.
Fully automated cell processing without Magnetic Selection.

CellFAB One MN

Fully automated cell processing with both micro and/or nano bead activation and selection on one system.

CellFAB One I

Fully automated cell processing system developed on the foundation of the Gentle Flex series platform.

CellFAB One M and CellFAB One N

Fully automated cell processing with choice of micro or nano beads for sorting and micro or antibody matrices for activation.

Why choose the CellFAB One ?

- **Comprehensive Workflow Coverage**
  Supports PBMC separation, apheresis wash (fresh/frozen), bead incubation and activation, cell sorting, gene modification, expansion culture, bead removal, washing, formulation, and fill-finish—all on one platform
- **Closed, Sterile, Single-Use Consumables**
  Minimizes contamination risk and reduces cleanroom classification requirements, enabling safer and more cost-effective manufacturing
- **Seamless Closed Automation Across Steps**
  Reduces operator error and batch failure risk while ensuring smooth transitions between complex cell-processing stages
- **Dual Magnetic Bead Compatibility**
  CellFAB One MN supports both micron and nanomagnetic bead sorting, offering unmatched flexibility

About CellBri

CellBri is a biotechnology solutions company dedicated to delivering **accessible, flexible automation** for the next generation of cell and gene therapies. Founded in 2020, our modular, GMP-ready platforms are designed to streamline manufacturing while preserving end-user control and configurability. Today, CellBri's technologies have been adopted into **over 100 cell therapy pipelines** worldwide, underscoring our commitment to enabling scalable, high-quality cell processing through **flexible automation.**

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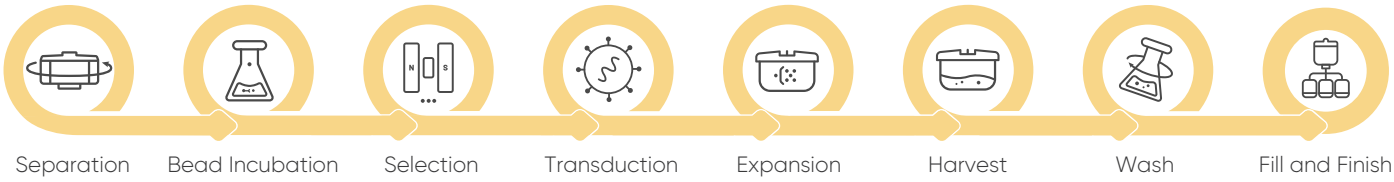

CellFAB One E

Foundational core for automated, closed platforms for a wide range of critical cell processing operations.

CellFAB One M

Fully automated cell processing with micro-sized bead selection.

CellFAB One N

Fully automated cell processing with nano-sized bead selection.

CellFAB One MN

Fully automated cell processing using nano-sized beads for cell selection and option to use micro-sized beads for activation.

CellFAB One I

Fully automated cell processing system developed on the foundation of the Gentle Flex series platform.

Small Tools

CB Leakguard: Portable leak testing unit
CB Transfer: Automated liquid transfer unit

Ensure sterility, compatibility, and traceability with CellBri's tools and single-use consumables

Consumables

Compatible Consumables and Kits
All systems feature fully enclosed, sterile consumables and all-in-one modular process design, enabling seamless integration across multiple stages of cell processing while

- Single-use Dispensing Consumables Kit
- Disposable Sterile Samplers
- Storage Bags
- Cell Bags for Expansion
- Combo Kits for Blood Filtration and Formulation Sampling

CellBri partners with you to deliver comprehensive solutions that support your entire workflow.

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