



ACS Material Equipment Series

BioMatec™ PrepMaster

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I. Product Overview

1) Main Unit



Photo of BioMatec™ PrepMaster

II. Product Features

The BioMatec™ PrepMaster combines multiple functions, including washing, centrifugation, sorting, and culturing, within a single system. Featuring a fully enclosed pipeline, it enables high levels of integration, scalability, automation, and domestic substitution in the cell preparation process. This ensures consistent and stable quality of cell products, while effectively reducing R&D costs as well as the operational and maintenance expenses associated with cleanroom facilities. The system is designed to meet the diverse requirements of various cell product preparations.

Key Features

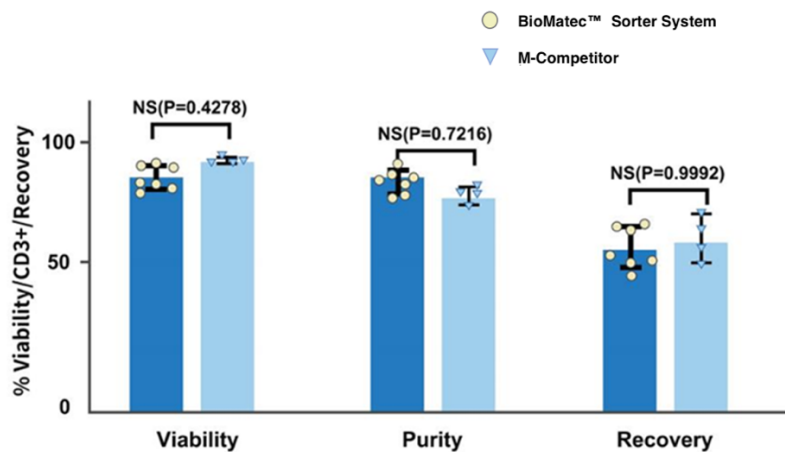
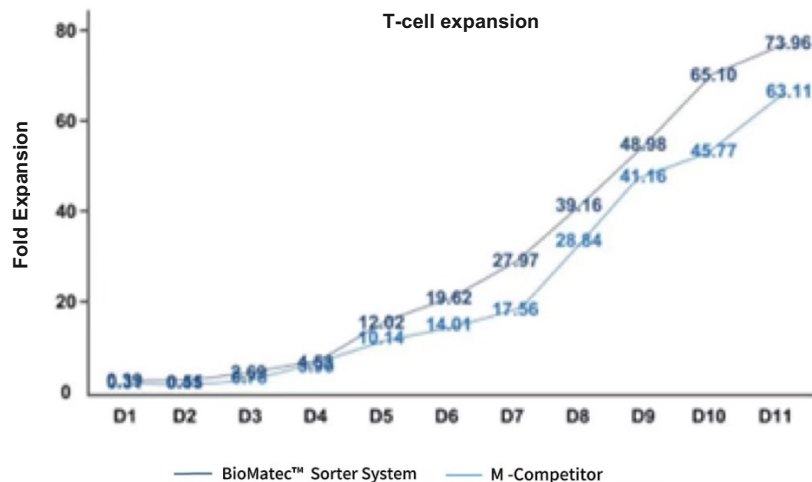
- **Advance Automated Cell Sorting:** Fully automated cell preparation system enables precise sorting of samples from diverse origins, distinct immune cell subtypes, and varying expression levels of specific biomarkers.
- **Seamless Function Integration:** Combines multiple functions into a single platform, enhancing experimental efficiency and precision, ensuring reproducibility of GMP-grade cell preparation, and reducing enterprise R&D and production costs.

- **Smart Operation Control:** Supports remote control, real-time monitoring, and comprehensive audit trails, minimizing errors and contamination risks associated with manual operations.
- **Tailored Solutions:** Customized programs can be developed to meet various customer process requirements, optimizing preparation for different cellular product needs.

III. Product Specifications

Product Name	BioMatec™ PrepMaster
SKU	EBMPM001
Dimensions	1060 × 470 × 1200 mm (d × w × h)
Weight	135kg
Power Supply	220VAC(Single-phase AC Power Supply), 50/60Hz
Rated Power	1000VA
USB Ports	4
Ethernet Port	1 × 100Mbps ethernet port
Display Screen	15.6-inch touchscreen
Barcode Scanner	Embedded design
Heat Sealer Gun	Optional configuration
Operating System	Linux system
Software Functions	Built-in programs, customizable
Pipeline Consumables	Disposable fully enclosed consumables
Magnetic Beads	Compatible with various sorting reagents
Magnetic Cell Sorting	Enrichment Sorting, Depletion Sorting
Initial Sample	Whole blood, apheresis blood, PBMC
Temperature Control Range	4 ~ 42°C
Gas Control	External Connection for Air, CO ₂ , and N ₂

IV. Reference Data



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