

CellSep PRO

Cell Processing System

Combining various cell processing technologies to enable the standardized and secure manufacturing of cell therapy products.



Smart
Automated System



Flexible Process
Configuration



Easy Operation



Thoughtful Design



PBMC Separation



Beads Incubation
& Wash



Viral Vector
Transduction



Enrich & Wash



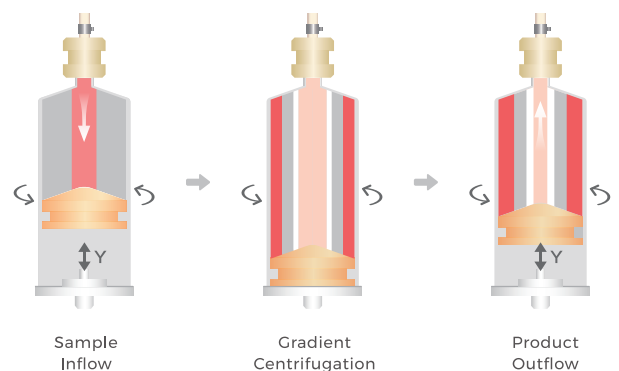
Fill & Finish

Applications

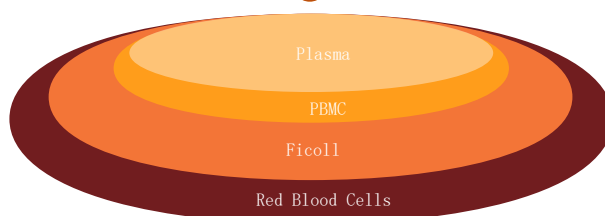
With processing kit, CellSep PRO can process multiple cell processing protocols including PBMC separation, beads incubation & wash, viral vector transduction, enrich & wash, fill & finish. Besides standard protocols, customized protocols can also be provided upon request.

Working Principle

The piston centrifugation chamber is connected with the tubing set. With the precise control of the centrifugation unit, air pressure unit, and other sensors, different fluids (blood, Ficoll, etc.) flow into the piston centrifugation chamber. With the centrifugation force, components with different densities are separated into different layers. When the piston moves upward, fluid flow out of the chamber and collected in different bags with the control of the three-way stopcocks.

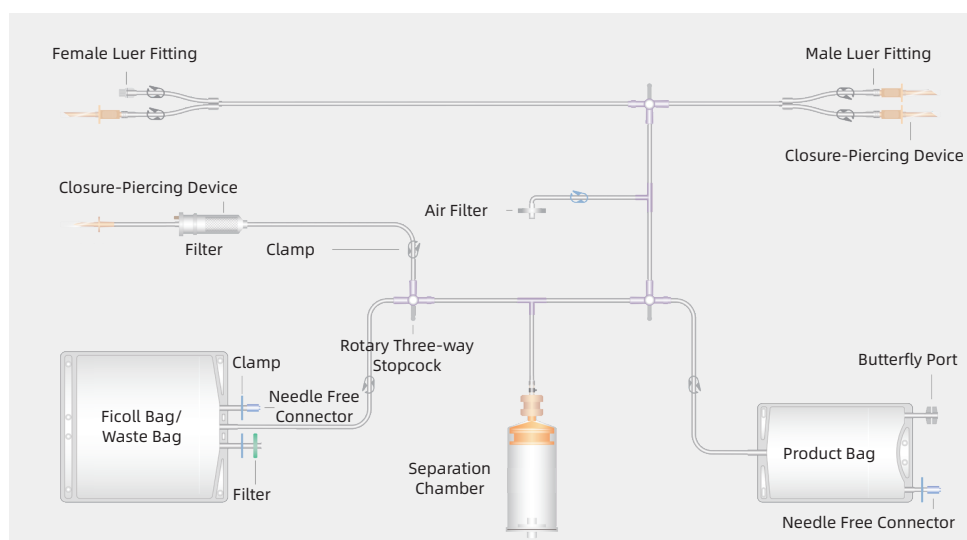


Taking PBMC separation as an example, with gradient centrifugation, the blood in the centrifugation chamber is separated into 4 layers. They are plasma, PBMC, Ficoll, and red blood cells from inside out.

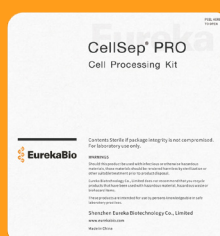


Scan the QR code to watch the video of PBMC separation on YouTube

Processing Kit



The processing kit should be connected with sample and reagent bags in the biological safety cabinet, or use the sterile connecting device.



The processing kits are produced and sterilized (ethylene oxide) in accordance with the ISO 13485 standard.



The consumables have been tested and certified by third-party authoritative organizations, including endotoxin, hemolysis, and cytotoxicity tests.

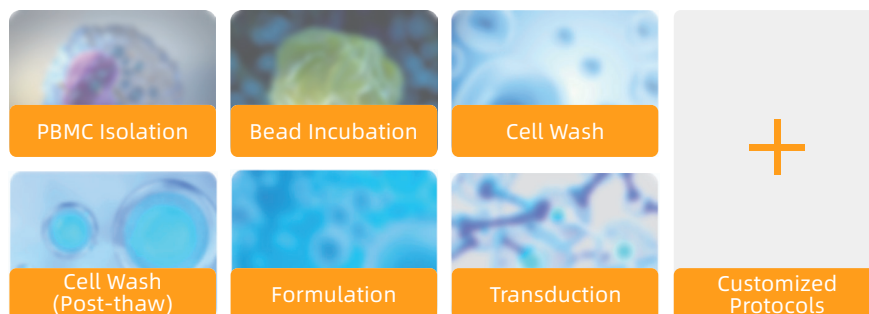
Software

The operating system of CellSep PRO complies with GMP regulations. The user interface is intuitive and user-friendly through a touch screen.

CellSep PRO is a highly automated cell processing system with traceable data. It can automatically generate PDF reports after every process operation.



Processing Protocols



CellSep PRO system, with different processing kit and specific process protocols, can perform different cell processes.

Equipment Parameters

Size	:	W:282mm D:480mm H:350mm
Weight	:	18 kg
User Interface	:	10.1-inch Color Touch Screen
Operating System	:	Linux
Separation System	:	Piston Centrifugation
Max. Rotating Speed/ Centrifugal Force	:	6000rpm / 1149 xg
Input Voltage	:	100-240V ~ , 50/60Hz
Environmental Requirements	:	10°C - 30°C

Customized Application Service

The cell therapy industry is in a booming stage, and new challenges for cell manufacturing processes are need to be fixed. EurekaBio is very experienced in such cell manufacturing processes. Based on the CellSep PRO, we can provide customized application services including hardware, software, and processing kit.





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