



**EurekaBio**

# CellSep™ PRO

An Automated Closed  
Cell Processing System



# CellSep™ PRO System

CellSep™ PRO is an automated closed cell processing system. With processing kit, CellSep™ PRO can process multiple cell processing protocols which is cGMP compliant.



Automated Closed System



Multiple Protocols



cGMP Compliance



User Friendly

## Applications



PBMC Separation



Beads Incubation & Wash



Viral Vector Transduction



Cell Expansion



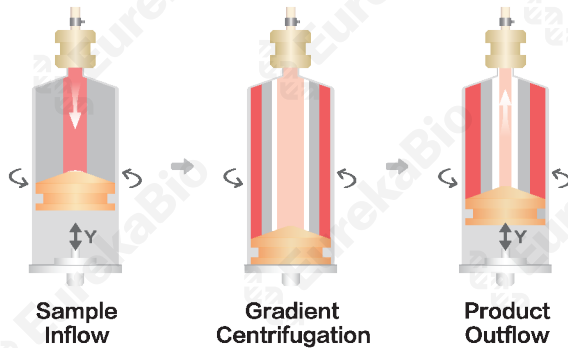
Enrich & Wash



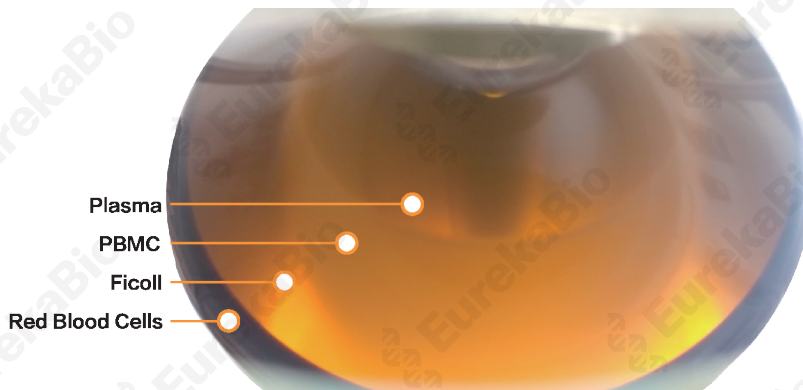
Fill & Finish

- 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.

# The Principle of the Centrifugal Separation



A photo of PBMC separation in centrifuging chamber



## Piston Centrifugation Chamber

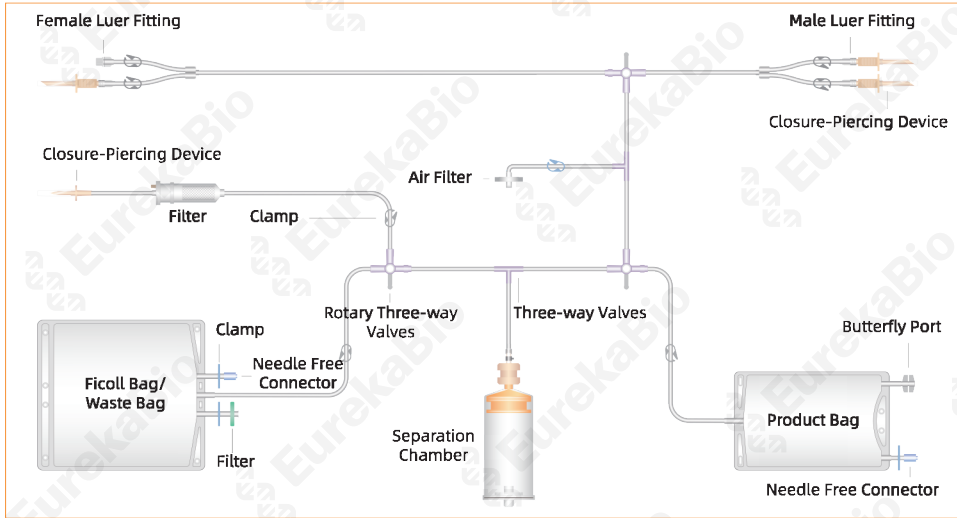
- The piston centrifugation chamber is connected with the tubing set. With the precise control of the centrifugation unit, air pressure unit, and other sensors, different fluids ( blood, Ficoll, etc. ) flow into the piston centrifugation chamber. With the centrifugation force, components with different 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 valves.
- Taking PBMC separation as an example, with gradient centrifugation, the blood in the centrifugation chamber is separated into 4 layers. They are plasma, PBMC, and Ficoll and red blood cells from inside out.



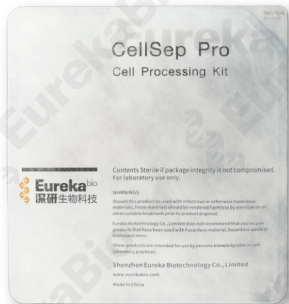
Scan the QR code to watch the video of PBMC separation on YouTube

# Processing Kit

## The Layout of Processing Kit



- Different cell processing protocols may use different processing kit.
- The processing kit is connected with samples and reagents in a biological safety cabinet, an isolator, or use sterile connecting device.



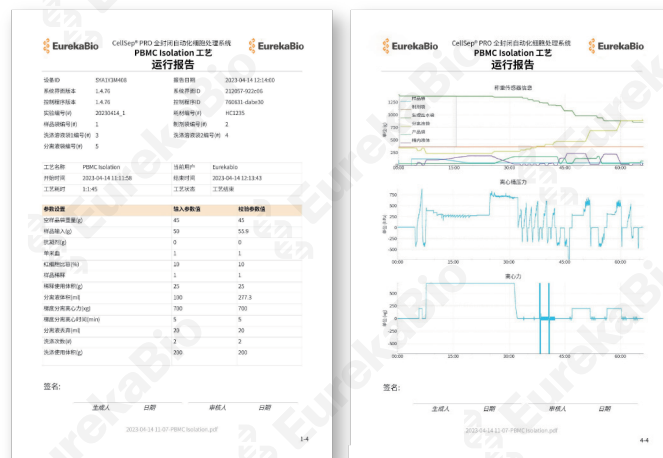
- The processing kits are produced and sterilized (ethylene oxide) in accordance with the ISO13485 standard.

- The materials used in the processing kits have reports of pyrogen, hemolysis, cytotoxicity, etc., from third-party.

# Software

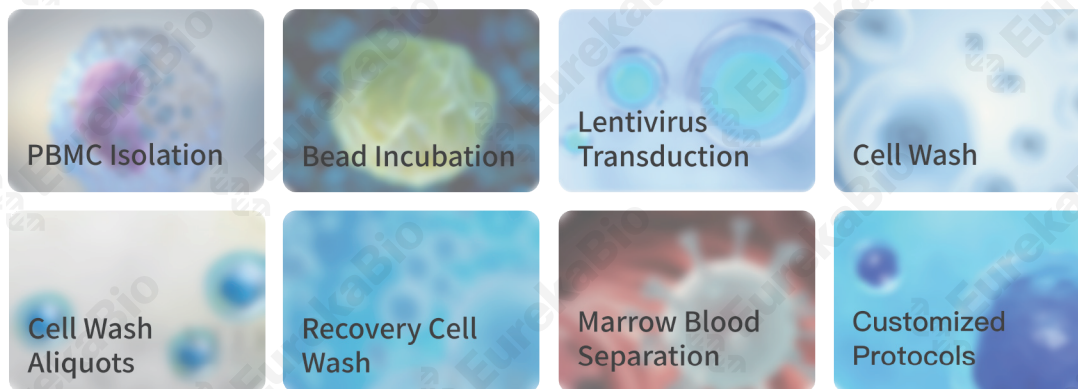


- The operating system of CellSep<sup>™</sup> PRO complies with GMP regulations. The user interface is intuitive and user-friendly through a touch screen.



- CellSep<sup>™</sup> PRO is a highly automated cell processing system with traceable data. It can automatically generate PDF reports after every process operation.

# Processing Protocols



CellSep<sup>™</sup> PRO system, with different processing kit and specific process protocols, can perform different cell processes.

# Protocol Customization Services

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.



## Equipment Parameters

Size : L:260mm W:480mm H:900mm

Weight : 18 kg

User Interface : 10.1-inch Color Touch Screen

Operating System : Linux

Separation System : Piston Centrifugation

Max. Rotating Speed/ Centrifugal Force : 6000rpm / 1149g

Input Voltage : 220V / 50Hz

Environmental Requirements : 10°C – 30°C

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