

ROBOSEP™ Specifications

Description

RoboSep™ is the first instrument to offer true walk-away automation of magnetic cell separation. Using column-free EasySep® technology to isolate cells by either positive or negative selection, RoboSep™ can label and separate up to 4 samples at one time. The instrument is easily controlled via the integrated color touch screen. The pre-optimized cell separation protocols are quickly selected using the intuitive graphical user interface. Once the cell samples and the appropriate reagents are loaded into the instrument, RoboSep™ performs all the steps necessary to magnetically label and separate the cells. The instrument handles the samples and reagents using disposable tips, eliminating cross-contamination. After completion of the cell separation cycle, the cells of interest are immediately available for any application. RoboSep™ fits in a standard bio-containment hood for sterile operation.



Main features

- Walk-away automation using EasySep® reagents
- Labels and separates up to 4 samples at one time
- Uses disposable tips, eliminates cross-contamination
- No magnetic separation columns
- Customizable programs
- Flow-compatible magnetic nanoparticles
- Isolates virtually any cell type

Capacity

- Positive selection: Up to 4 different simultaneous separations, up to 8×10^9 total cells (four samples of up to 2×10^9 cells each).
- Negative selection: 1 or 2 different simultaneous separations, up to 2×10^9 total cells (2 samples of up to 10^9 each).
- Negative and positive selection can be executed simultaneously (for example 1 negative selection and 2 positive selections).
- Sample volume: from 250 μ L to 8.5 mL for each sample.

User Interface

- Intuitive graphical user interface.
- Integrated 8" TFT color touch screen (800 x 600, millions colors).
- Pre-programmed protocols for all EasySep® cocktails.
- Stores and reports user ID, sample ID and reagent lot numbers.
- Software and procedures can be updated, and usage data saved, through the Ethernet or USB connections.
- Laboratory automation: can be controlled externally using XML-RPC for integration into automated processes.
- Connections: RJ-45 10/100 Ethernet port, 2 USB ports.

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Mechanical Components

Robotic Arm	<ul style="list-style-type: none"> Automated tip loading and ejection. The dual tip head uses 1 mL and 5 mL tips. Pipetting range: 12.5 µL to 5 mL (accuracy: volume variations <10% for all the pipetting range). Air displacement pipetting.
Ejection Arm	<ul style="list-style-type: none"> Automates tip ejection back into the tip box.
Carousel	<ul style="list-style-type: none"> Can accommodate 4 separation magnets and reagents.
Hydraulics	<ul style="list-style-type: none"> Highly reliable pump requires no user-servicing. Uses distilled water as hydraulic fluid, avoiding problems associated with salt crystal formation. Easily accessible hydraulic fluid bottle with sufficient volume for several days of operation.

Technical Specifications

Dimensions:

- Height with lid: 55.6 cm (21⁷/₈ inches)
- Width: 70.7 cm (27⁷/₈ inches)
- Depth: 39.2 cm (15³/₈ inches)
- Weight: 26 kg (57 lb.)

Power Requirements: 50/60 Hz, AC 100-240V.

Conditions for operation: 10-30°C (50-86°F). Humidity 20-85% (non-condensing). RoboSep™ is not specified for use in a cold room (4°C, 39°F).

RoboSep™ is classified as a protection class I device and must be plugged into a grounded power outlet.

System is supplied with:

- 4 "The Big Easy" EasySep® magnets
- Tube rack
- User manual
- 1 year warranty

Ordering Information

Catalog number: 20000.

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