

Sefia S-2000 Cell Processing Instrument

SEFIA CELL PROCESSING SYSTEM

The Sefia™ multifunctional instrument is designed for cell therapy product manufacturing. The Sefia Cell Processing System, which is comprised of the instrument, protocol software, and disposable kits, allows you to perform upstream or downstream processing steps in a functionally closed and automated manner. You have the flexibility to customize each step to run only the operations you need or combine multiple steps in sequence. Using Chronicle™ automation software, Sefia can be integrated with other cell therapy instruments from Cytiva and third-party instruments.

- **Achieve scalability.** Process initial volumes up to 10 L, with a wide range of final volumes
- **Gain peace of mind.** Functionally closed processing keeps contaminants out. Sensor controls and automation help to ensure smooth operation
- **Streamline your workflow.** You can set up protocols to run in sequence automatically
- **Minimize hands-on time.** Automation combined with intuitive operation means that you can get started quickly and walk away
- **Simplify record-keeping.** Sefia can transmit instrument data and alarms for remote monitoring or for incorporation into a Chronicle eSOP
- **Keep operations running smoothly.** Integrate with Chronicle to monitor all connected instruments (Sefia and others) and manage service records



Fig 1. Sefia instrument. The mixer with temperature control is on the left, centrifugation chamber is in the middle, and touchscreen and barcode reader (not visible here) are on the right. Weight sensors are connected to the bag hooks at the top.

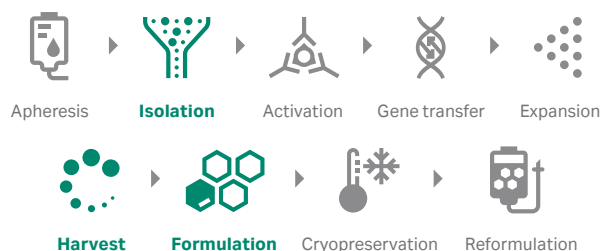


Fig 2. General workflow for cell therapy manufacturing. The Sefia Cell Processing System performs the steps highlighted in green.

Applications and related products

Protocol software	Kit	Application
PremierCell	CT.300.1	Concentrate cells, deplete platelets, perform density gradient-based separation and resuspend your final product
FlexCell	CT-800.1	Concentrate, wash, and formulate up to 10 L of cellular products using continuous-flow technology

Product specifications

Feature	Description
Core technology	Centrifugation technology and a peristaltic pump for continuous flow rates up to 10 L/h Four stopcocks for up to eight fluid pathways Ultrasound sensors for air bubble and air level detection Pressure monitoring sensors Electric motor for centrifugation up to 1600 × g Four bag weight sensors (max. 10 kg per bag) Thermal mixer (incorporating Peltier module) for temperature control between +4°C and +40°C Separation chamber temperature monitor and control via integrated thermal module
Traceability	Barcode reader Data management with PDF reports and procedural graphs
User interface	Color touchscreen with an intuitive graphical user interface (GUI) Dynamic user guide to support operations
Software	Compatible with Sefia protocol software only Windows® 7 and proprietary Bioprocessing Application Software (BPAS)
Unified digital platform	Chronicle automation software connects Cytiva cell therapy instruments and third-party instruments
Connectivity	Five USB slots and two ethernet ports
Dimensions	W: 74 cm, L: 51 cm, H: 91 cm (29" × 20" × 36"), 40 kg (88 lb)
Power	1000 W, 100-240 VAC, 50/60 Hz

Safety and compliance

Sefia S-2000 is a laboratory instrument with the CE mark (Machinery Directive 2006/42/EC) intended for cell therapy manufacturing in good automated manufacturing practice (GAMP™) compliant environments. It is compliant with IEC-61010, IEC-61326, and IEC-62304 standards.

Storage requirements

	Operation	Storage and transport
Temperature	7°C to 27°C	0°C to 50°C
Relative humidity	30% to 75%	20% to 75%

Ordering information

Product	Product code
Sefia S-2000 Cell Processing Instrument	29285527
Related products	Product code
PremierCell Sefia Protocol Software	29321902
FlexCell Sefia Protocol Software	16301
CT-300.1 Sefia Cell Processing Kit	29284866
CT-800.1 Sefia Cell Processing Kit	20001
CPAK-100 Sampling Line	29275109
CPAK-101 Sampling Line	29275108
Chronicle Pre-GMP Automation Software	MYC_30001
Chronicle GMP Automation Software	MYC_60001
Chronicle Enterprise Automation Software	MYC_90001

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