

CTS Rotea Counterflow Centrifugation System

Closed cell therapy processing system



Key features of the Gibco™ CTS™ Rotea™ Counterflow Centrifugation System

- **Low output volumes**—proprietary technology can deliver as little as 5 mL of cell concentrate
- **Process flexibility**—user-programmable software enables you to create and optimize a broad range of protocols for cell separation, washing, and concentration
- **High cell recovery and viability**—gentle processing enables >95% cell recovery with the ability to maintain cell viability
- **From research through commercial manufacturing**—closed single-use kit enables sterile processing, and OPC-UA* interface enables connectivity to a 21 CFR Part 11–compliant system

Specifications	
Instrument	
Centrifugal force	3,000 x g
Peristaltic pump flow rate	5–110 mL/min (standard kit) 30–160 mL/min (Hi-Flow kit)
Centrifuge chamber volume	10 mL
Cell count per chamber load	5×10^7 – 5×10^9 cells**
Output cell concentration	5×10^6 – 300×10^6 cells/mL
Recommended input volume range	50 mL–20 L
Minimum output volume	5 mL
Maximum fluid density	1.10 g/mL
Operating noise level	<70 dBA
Dimensions (H x W x D)	16 (body only)/30 (with bag poles) x 11.4 x 20 in. (40.6 (body only)/76.2 (with bag poles) x 29 x 50.8 cm)
Weight	44 lb (20 kg)
Tablet accessory model	2-in-1 Dell™ 5290 system (laptop and tablet)
System Cat. No.	A47679 (Rotea system with 2-year service) A47695 (Rotea system with 2-year service and IQ/OQ)
Consumables	
Kit tubing material	DEHP-PVC
Tube dimensions	0.160 in. OD, 0.116 in. ID (4 mm OD, 3 mm ID)
Pump tube material	Bioprene™ plastic
Counterflow centrifuge chamber material	Tritan™ MX711 copolyester
Sterilization method	Gamma irradiation
Consumable Cat. No.	Standard kit: A49585 (10 pk); A49313 (5 pk) Hi-Flow kit: A46575 (10 pk); A49239 (5 pk)

* OPC-UA: Open Platform Communications United Architecture.

** Dependent upon cell type. Centrifuge can be filled multiple times to process larger batches.

Note: Instrument and Consumable Regulatory Support File available upon request at thermofisher.com/regulatory

Find out more at thermofisher.com/rotea

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