SVIPCTSA3

Product Datasheet

Ksep[®] 50

Single-Use Continuous Counterflow Centrifugation System

Product Information

Traditional centrifugation methods produce high shear forces that often damage cells during cell processing in advanced therapies. The Ksep® 50 system uses advanced counterflow centrifugation, which reduces shear forces and the potential for cell lysis, resulting in superior viability and greater recovery. The automated, single-use system minimizes the risk of contamination by reducing the need for manual handling and offers seamless scale-up from process development to commercial manufacturing.

Features and Benefits

- Gentle counterflow separation with minimal shear forces helps achieve high cell viability and supports a smooth transition from process development (0.1 L) to GMP production (20 L)
- Cell processing time is reduced by 50% in a closed cell harvest process
- High cell recovery > 90%
- Demonstrates robust performance across a wide range of cell densities, from very low (less than 1 million cells/mL) to extremely high (over 100 million cells/mL)

Relevant Applications

- Cell harvest
- Cell capturing, cell concentration
- Cell washing, media | buffer exchange
- Cell separation

Relevant Process Steps

- Clarification
- Harvesting
- Concentration
- Sterile filtration
- Fill and finish

E Technical Specifications

Attribute	Ksep® 50
Counter flow centrifugal force [g]	2,000
Maximum peristaltic pump flow rate [L/hr]	48
Centrifuge chamber volume [mL]	50 (2 × 25)
Cell capacity per cycle*	Up to 10 Billion
Recommended input volume range [L]	0.1 - 20
Minimum output volume range [mL]	50
Process connection size	¼"×1⁄8" C-Flex®
Dimensions	176.3 × 72 × 81.8,
$(H \times W \times D, in cm)$	246 kg
Cell recovery [%]	>90
Cell viability [%]	<5 change

Power supply	Unit	Value
Rated voltage	V _{AC}	200-240
Rated frequency	Hz	50/60
Power consumption	VA	1,700
Current consumption, maximum	А	16
Max. fluctuations in supply voltage from rated voltage	%	±10
Protection class	IP	30

 * varies with cell size and process parameters

Grace Ordering Information

Product Name	Description	Order Code
Ksep® 50 system	Ksep® 50 system	KSEP50
Ksep® 50 consumables	Ksep® 50 consumables set (includes tubing and chamber set)	KSEP50-SET

Peripherals and Accessories

Product Name	Order Code
Ksep® 50 Bagholder 0.5 1 L	KSEP50-BH-0.5-1L
Ksep® 50 Bagholder 10 L	KSEP50-BH-10L
Ksep® 50 Bagholder 3 5 L	KSEP50-BH-3-5L
Ksep®50 MU Cleaning Rod	KSEP50-CT-ROD
Ksep [®] 50 SU Cleaning Swab	KSEP50-CT-SWAB

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⊕ For More Information, Visit

sartorius.com Ksep® Centrifugation System