

thermo scientific



CentriPAK BioProcess Container (BPC)

Next generation centrifuge container providing a single-use, sterilized, closed system for cell culture separations

ThermoFisher
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A breakthrough in centrifugation

The Thermo Scientific™ Sorvall™ BIOS 16 Centrifuge with NEW Thermo Scientific™ CentriPAK™ BPC system combines our leading technology with an innovative, single-use, sterilized closed system designed for improved security of cell culture separations in the bioprocessing² industry.

The NEW Thermo Scientific CentriPAK BPC system maximizes your sample security and minimizes your process time in four ways.



¹ Samples were tested in a Thermo Scientific Sorvall BIOS 16 Centrifuge in combination with 6 x 2000mL and 8 x 2000mL Swinging Bucket Rotors at up to 7187 x g, 4° to 40°C for 2 hours.

² CentriPAK BPC is intended for centrifugation in biotechnological applications. It is not approved or intended for, and should not be used for medical, clinical, surgical or other patient-oriented applications.



1

Sterilized closed system

Reduces cross-contamination risks while separating cell cultures.

2

High-efficiency separation

Designed for centrifugation¹, enabling gentle, high-throughput and high-efficiency harvesting.

3

Single-use

Eliminates post-use cleaning steps required with reusable containers.

4

Bioprocessing quality

Rigorous quality control and assurance practices for the manufacture of industry-standard material components and aseptic product contact film.

1

Sterilized closed system

CentriPAK™ BPC helps reduce cross-contamination risks while separating cell cultures.

Contamination from neighboring cultures or circulating microorganisms is a constant risk in many traditional cell culture workflows. The CentriPAK BPC system helps protect against contamination by offering a complete solution for the whole workflow.



2

High-efficiency separation

CentriPAK BPC is designed for centrifugation¹, enabling gentle, high-throughput and high-efficiency harvesting.

CentriPAK BPC main components, plastic film, ports and tubing were all tested successfully in the Sorvall BIOS 16 and HAEMAFlex Swinging Bucket Rotors with 2000mL Buckets. CentriPAK BPCs are designed for centrifugation at g-forces of up to 7187 x g (4700rpm).



3

Single-use

CentriPAK BPC eliminates post-use cleaning steps required with reusable containers. CentriPAK BPCs are single-use, gamma irradiated products that cover a range of industry-standard connection systems such as sterilized connect, quick connect, or weld-on 3/8 in. ID (1/8 in. wall) connection. A steam-through adapter is available for stainless-steel culture vessels. The plug-and-play nature of the BPC reduces the time spent on cleaning and preparation and the cost of water and chemicals used for cleaning.

¹ Samples were tested in a Thermo Scientific Sorvall BIOS 16 Centrifuge in combination with 6 x 2000mL and 8 x 2000mL Swinging Bucket Rotors at up to 7187 x g, 4°C to 40°C for 2 hours.

4 Bioprocessing quality

CentriPAK BioProcess Container

To help ensure that the CentriPAK BPC system conforms to the quality standards expected in the bioprocessing industry, it is subjected to rigorous quality control in compliance with ISO 13485:2016 from the receipt of components to the release of final product.

Our production control processes help ensure complete lot traceability for each batch while the process control document becomes the stepwise manufacturing record that physically accompanies the lot through every step of the manufacturing process. At the end of the process, the production record is reviewed by the quality assurance team for completeness and correctness prior to the release of the lot and issuance of the Certificate of Analysis (CoA).

BPC manufacturing process

Final assembly - additional components are attached to the CentriPAK BPC main components to produce a complete CentriPAK BPC system. This is done to a catalog specification in an ISO 7 clean room.

Sterility assurance level - CentriPAK BPC are gamma irradiated per ANSI/AAMI/ISO 11137 and lot controlled with a minimum of a 6-month shelf time user guarantee.

The Certificate of Analysis for the CentriPAK system reports compliance to:

- Visual inspection per specification
- USP Class VI testing for all product contact materials (USP<88>)
- Cytotoxicity testing of product contact films (USP<87>)
- USP Physicochemical Tests for Plastics of product contact films (USP<661>)
- Plastic Containers for Aqueous Solutions for Parenteral Infusion of product contact films (EP<3.2.2.1>)
- Endotoxin Test (USP<85>)
- Particulate Matter Test (USP<788>)
- Sterility Assurance Level (SAL) of 10^{-6} per ANSI/AAMI/ISO 11137
- The current revision of EMEA/410/01



CentriPAK BioProcess Container

Ordering Information

1. Choose a centrifuge bundle including the centrifuge and the rotor and BPC adapters.

Sorvall BIOS 16 Centrifuge*	Cat. No.
Sorvall BIOS 16 Centrifuge, (200, 208, 220, 230, 240 V \pm 10%; 50/60Hz; single phase) + 6 x 2000 ml rotor + 6 Bucket liners BPD package for CentriPAK	L65007685
Sorvall BIOS 16 Centrifuge, (200, 208, 220, 230, 240 V \pm 10%; 50/60Hz; single phase) + 8 x 2000 ml rotor + 8 Bucket liners BPD package for CentriPAK - L85007685	L85007685
Sorvall BIOS 16 Centrifuge, (380, 400, 415 V \pm 10%; 50Hz; 3 phase) + 6 x 2000 ml rotor + 6 Bucket liners BPD package for CentriPAK	L65007697
Sorvall BIOS 16 Centrifuge, (380, 400, 415 V \pm 10%; 50Hz; 3 phase) + 8 x 2000 ml rotor + 8 Bucket liners BPD package for CentriPAK	L85007697
Sorvall BIOS 16HD Centrifuge, (Heavy Duty) (200, 208, 220, 230, 240 V \pm 10%; 50/60Hz; single phase) + 6 x 2000 ml rotor + 6 Bucket liners BPD package for CentriPAK	L65007696
Sorvall BIOS 16HD Centrifuge, (Heavy Duty) (200, 208, 220, 230, 240 V \pm 10%; 50/60Hz; single phase) + 8 x 2000 ml rotor + 8 Bucket liners BPD package for CentriPAK	L85007696

* Please consult the Sorvall BIOS brochure for additional information.

2. Specifications of rotors (included in bundles listed above):

Sorvall BIOS 16 Rotors	Rotor capacity (places x volume)	Maximum speed	Maximum RCF	Cat. No.
6 x 2,000mL Swinging Bucket Rotor, Oval Buckets	6 x 2,000mL	4700rpm	7187 x g	75003962
8 x 2,000mL Swinging Bucket Rotor, Oval Buckets	8 x 2,000mL	3900rpm	5374 x g	75003982

3. Order adapter and spacer

CentriPAK BPC Adapter and Blood Bag Spacer	Description	Quantity	Cat. No.
	CentriPAK BPC Adapter for BIOS 16 2000 mL buckets (included in centrifuge bundles listed above)	Set of 2	75003873
	Spacer for packing BPC chamber inside adapter	Set of 12	75003843

4. Order CentriPAK BPC

CentriPAK BPC	Description	Quantity	Cat. No.
	6 x 1.7L harvest manifold (sterilized) for sterilized connect, quick connect, or weld-on 3/8 in. ID, (1/8 in. wall) connection	Set of 2	75003880

5. Order CentriPAK Labtainer™ BPC

CentriPAK BPC	Description	Quantity	Cat. No.
	10L Labtainer BPC for collection of supernatant	Set of 2	75003883

6. Choose additional optional products

Image	Description	Quantity	Cat. No.
CentriPAK BPC Steam-through Adapter			
	Steam-through adapter for connection to a stainless steel culture vessel	Set of 2	75003890
CentriPAK BPC Single			
	1.7L CentriPAK BPC (sterilized) with two 1/8 in. ID, 1/4 in. OD tubing for weld-on or Luer-Lock connection	Set of 2	75003885
CentriPAK BPC Single with Quick Connect			
	1.7L CentriPAK BPC (sterilized) with two 1/4 in. ID with quick connects	Set of 12	75003891
CentriPAK BPC Adapter Rack (6-place)			
	Adapter rack for CentriPAK BPC Adapter	Each	75003889
CentriPAK BPC Hanging Rack			
	Rack for hanging CentriPAK BPC chambers	Each	75003892
CentriPAK BPC Clip			
	Long clip used with pump for separation of supernatant from pellet	Set of 2	75003886
Peristaltic Pump			
	Peristaltic Pump for separation of supernatant from pellet	Each	20210448

For connection and disconnection of tubings the SCD IIB Sterile Tubing Welder from TERUMOBCT (Cat. No. 3NCC986) is recommended.

Find out more at thermofisher.com/centriPAK

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