

PBS Closed-System Sampling Conical (50 mL)

Part# VV-04564



Driven by Vertical-Wheel® Technology

Vertical-Wheel Technology delivers performance, precision, and scalability across our family of bioreactors.

A Closed-System Solution for Representative Bioreactor Sampling



The PBS Closed-System Sampling Conical enables aseptic collection of up to 30 mL process samples from PBS Vertical-Wheel Bioreactors by maintaining a closed sampling workflow. The system combines a gamma-irradiated vented conical, custom cap with integrated dip tube, and weldable tubing to support gentle and representative sample collection.

Key Benefits:

Maintain a Closed Process

Reduce contamination risk by collecting samples without exposing the process to the surrounding environment.

- Closed-system sampling workflow
- Compatible with sterile welding and sealing operations
- Eliminates open handling associated with traditional sampling methods

Collect Representative Samples

An integrated dip tube enables controlled sample collection from within the vessel while minimizing disturbance to cell aggregates and suspension cultures.

- Designed to minimize shear associated with manual aspiration techniques
- Syringe attaches directly to the sterile filter, enabling sample line clearing and sample collection without the need for a peristaltic pump
- Suitable for stem cells, immune cells, organoids, and cell aggregates

Simplify Sampling Operations

Designed to support efficient and consistent bioreactor sampling, the PBS Closed-System Sampling Conical combines an integrated dip tube, sterile vented conical, and closed sampling assembly into a single solution for aseptic sample collection.

- Collect samples directly into the final sample container
- Minimize handling and transfer steps
- Support standardized sampling workflows across operators and facilities

Advantages Compared to Traditional Syringe-Based Sampling

Traditional Syringe Sampling	PBS Closed-System Sampling Conical
Aspiration can disturb sensitive cells if not performed consistently	Integrated dip tube supports gentle sample collection
Ambient air is drawn into syringe, creating a potential contamination pathway	Integrated 0.2 µm sterile vent filter allows air displacement while maintaining a microbial barrier
Multiple handling steps may be required for sample transfer	Sampling and collection occur in a single assembly
Transfer requires greater dependence on operator technique	Standardized workflow promotes consistency
Potential for process exposure during transfer operations	Potential for process exposure during transfer operations

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Typical Applications

Aseptic in-process QC sampling:

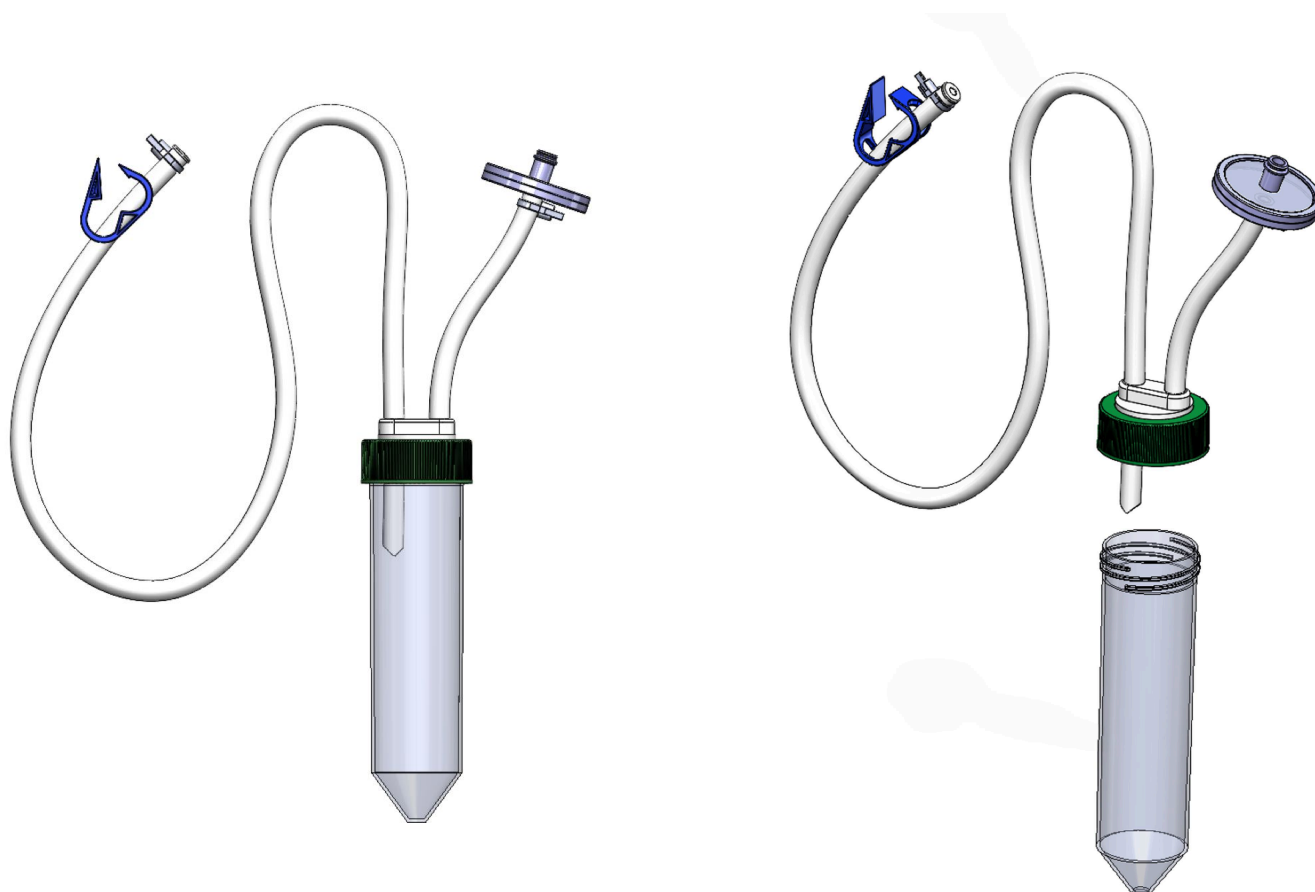
- Cell count and viability analysis
- Metabolite monitoring
- Aggregate size characterization

Closed-System Sampling Designed for Rapid Cell Therapy Sampling

The PBS Closed-System Sampling Conical provides a practical, scalable approach to bioreactor sampling that helps maintain process integrity, improve sampling consistency, and support the transition from process development to GMP manufacturing.

Features

- ✓ Single-use assembly
- ✓ 30 mL sample collection capacity
- ✓ Integrated dip tube for gentle sample withdrawal
- ✓ Gamma-irradiated vented cap with 0.2 μ m filter
- ✓ Compatible with PBS Vertical-Wheel Bioreactor systems





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HAVE ANY QUESTIONS?

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