Transfer Cap for Square Media Bottle

Catalog # PCA-25021401

Product Description

Overview

The Two-Ports Bottle Cap System is a precision-engineered solution designed for safe and efficient fluid transfer in critical applications, including biopharmaceutical processing, laboratory workflows, and sterile fluid management. This system ensures airtight sealing, contamination-free operation, and reliable performance, making it ideal for environments requiring strict aseptic conditions.

Key Components

- Two-Ports Bottle Cap
- Integrated Air Filter
- Fluid Transfer Tubing (Outflow Line): weldable 60cm 1/8'' x 1/4'' TPE tube, 20cm 3/32'' x 5/32'' PVC tube connected by Luer connectors
- Internal Dip Tube

Sterilization

Product labeled as sterile is irradiated and dosimetrically released upon ISO 11137 recommended practices in effect at the time of validation. Sterilization records are reviewed and signed off by qualified personnel for product release. ACRO products labeled sterile meet a minimum requirement of 10^{-6} SAL (Sterility Assurance Level).

Non-Pyrogenic

Products labeled non-pyrogenic have been validated per FDA guidelines on LAL (Limulus Amebocyte Lysate) testing for medical devices and company guidelines. The acceptance level for product is less than 0.03 EU/mL.

Transmissible Spongiform Encephalopathies / Bovine Spongiform Encephalopathy

The product complies with the latest EMA/410/01 revision on minimizing TSE risks through processing all bovine-derived materials in accordance with section 6.4 specifications.

DNase & RNase Free

This product has been tested and is free of any detectable DNase / RNase contamination.

Quality Control Testing

This product has been inspected and controlled through whole production processing in accordance with current applicable product specifications and QC SOP. Inspection records are reviewed and signed off by qualified personnel for product release.

Performance testing

The referenced production batch has undergone sampling and quality verification procedures compliant with current Standard Operating Procedures, with subsequent certification by Quality Control for specified critical parameters:

1. Product Appearance: Conformance to established visual standards.

2. Container Integrity: Protective barrier functionality, compliant labeling elements, and proper assembly configuration verified through standardized inspection protocols.

User Manual

Introduction

The Two-Port Cap System enables sterile liquid transfer between media bottles and cell culture bags. This manual provides step-by-step instructions for proper assembly, operation, and closure of the system. This cap is applicable to the bottle of CelThera™ GMP T Cell Expansion Medium (Cat. No. GMP-CM3101 and Cat. No. GMP-CM3102) and other 38-430 thread bottles.

Intended Use: Aseptic transfer of cell culture media or other sterile fluids in controlled environments.

Pre-Use Checklist

- Sterility: Perform all steps in a certified biosafety cabinet or laminar flow hood.
- Inspect Components: Verify integrity of Luer connectors, tubing, and filters before use. If Luer connectors loose, tighten by rotating the collar clockwise until fully secured.
- Required Tools: Ensure availability of a tube sealer, tube welder, gas booster pump or peristaltic pump.

Assembly and Operation Instructions

3.1 Submerge the diptube into the media bottle and tighten the cap.

3.2 Tubing-to-Bag Connection

Using a sterile thermal welder, fuse a TPE or PVC tube to the port of the cell culture bag. *Note: Allow the weld to cool completely before handling.*

Alternative: If no welder available, connect the Luer connector between cap and cell culture bag and tighten securely.

3.3 Media Transfer

Load the TPE tubing into the peristaltic pump head. Start the peristaltic pump at the appropriate flow rate and monitor transfer to prevent overfilling or air ingress.

Note: The TPE tubing is not suitable for prolonged use in peristaltic pumps and must be discarded after a single use.

Alternative: For one-time transfer of the entire liquid volume, users can also attach a silicone tube with a male Luer connector (user-supplied) to the air filter using a Luer fitting, then load the silicone tube in the peristaltic pump. Start the peristaltic pump to pump the liquid into the cell culture bag.

3.4 Terminate Process

Stop the pump once the cell culture bag reaches the desired volume.

3.5 System Disconnection and Sealing

Seal off and sever the line between the media bag and Cap.