

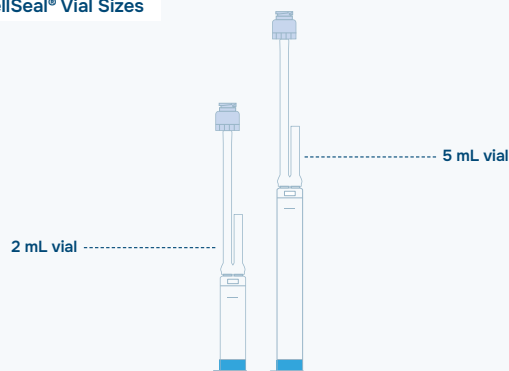
CellSeal® Needleless Closed-System Cryogenic Vial

Preserving the promise™

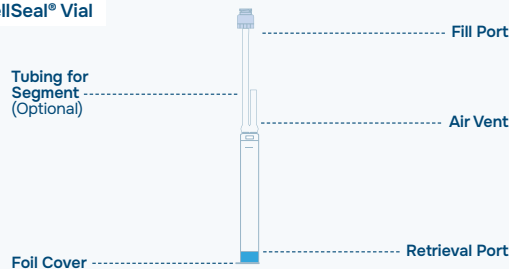
► Recommended Materials

- ✧ Standard Luer connector syringe (10 mL syringe for 5 mL vial, and 5 mL syringe for 2 mL vial recommended)
- ✧ Exam gloves
- ✧ Processing rack or vial stand
- ✧ Compatible sealing tool (**BioLife RF Sealing System recommended**)
- ✧ Clean scissors
- ✧ Alcohol swabs
- ✧ Compatible thawing accessories such as water bath or thawing system (**BioLife ThawSTAR® Vial Thawing System recommended**)
- ✧ Compatible cryogenic storage accessories, such as a box, cane, or controlled rate freezing container (**BioLife Cryogenic Box, Rack, and Freezing Container recommended**)
- ✧ Cryogenic gloves

CellSeal® Vial Sizes



CellSeal® Vial



› Step-by-Step Guide

NOTE: Handle the vial using aseptic technique.

STEP 01

Use clean scissors to cut the packaging. Wearing exam gloves, remove the vial from the packaging. Place vial upright with tubing and needleless port at the top in a vial stand. Reclose the packaging. **Do not handle the vial by the fill port. Handling product by the fill port weakens the tubing and fill port joint.**

STEP 02

Working inside a biosafety hood or cleanroom, aseptically prepare the needleless port site by swabbing the top of the port with an alcohol wipe. Allow the port to air dry up to 1 minute before accessing. Be sure to remove any particulate on the needleless port surface.

STEP 03

For loading the sample, use an appropriately sized syringe and needle to draw up the sample to be stored.

- a. If using a 5 mL vial, a 10 mL syringe is recommended.
- b. If using a 2 mL vial, a 5 mL syringe is recommended.

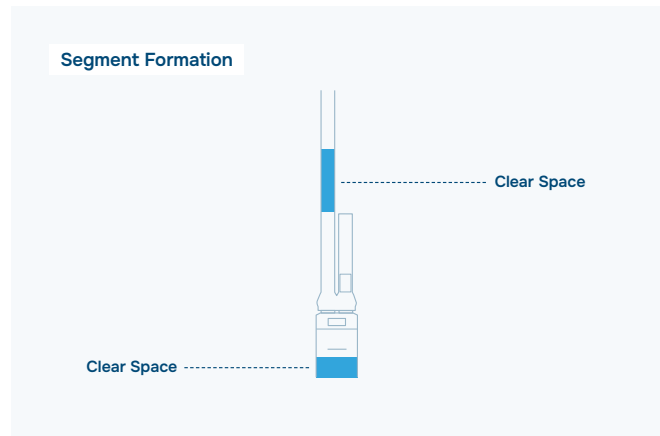
It is recommended to draw a small volume of air into the syringe first and then draw the sample. The air will be used to level the column of liquid in the tubing or to assist in pushing the entire sample into the vial. **Do not fill the vial with more than the stated maximum volume.**

STEP 04

Connect the needleless syringe containing your sample to the needleless port by pushing the syringe adapter into the needleless port septum and turning the syringe clockwise. Once connected, push the sample into the vial. **Do not use any non-standard Luer connectors; they may damage the needleless port. To avoid dislodging the air vent filter, be sure to fill the vial at a moderate speed using the recommended syringe size.**

STEP 05

If a segment is desired, pull back on the syringe plunger to create a clear space in the tubing column above and below the liquid for the segment. Push the air into the tubing to place the liquid column at the desired level, or push the entire sample into the vial.

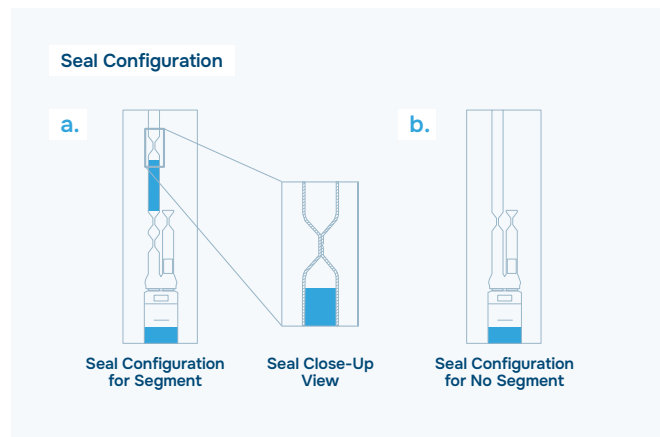


STEP 06

Using a sealer designed for use with ethylene-vinyl acetate tubing, seal the tubing as described in 6a or 6b below.

NOTE: It is recommended to use BioLife RF Sealing System for sealing of CellSeal vial's tubing.

- a. If a segment is desired, place a seal above and below the liquid in the tubing. Place an additional seal below the bottom seal for optimal folding over of segment for storage.
- b. If no segment is desired, place a seal near the vial body alone.



STEP 07

Seal the air vent tubing above the filter, making this a closed system. Once a closed system is created, use clean scissors to cut off any additional tubing. **NOTE:** The vial is intended to be frozen in the upright position only, and stored at cryogenic temperatures (as low as -196°C).

STEP 08

Segment can be folded over for easy storage. Place vial and folded integral segment into box, cane, or controlled rate freezing container for storage. **NOTE:** BioLife Cryogenic Storage Box, Rack, and Freezing Container are recommended.

STEP 09

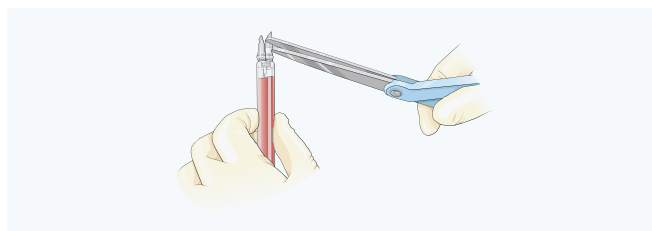
When segment is needed, remove vial from cold storage and immediately cut off segment with clean scissors and thaw per user's validated sample thawing instructions.

STEP 10

When sample is needed, remove vial from cold storage and thaw per user's validated sample thawing instructions. **NOTE:** BioLife ThawSTAR Vial Thawing System is recommended. **NOTE:** Vial is for single use only.

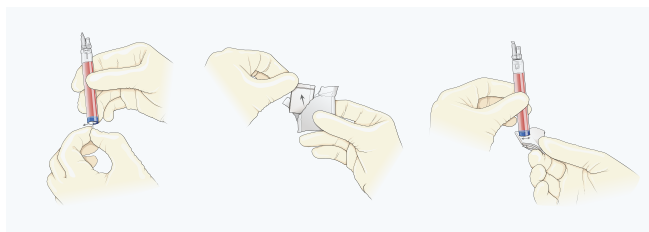
STEP 11

Cut open the vent tube with clean scissors.



STEP 12

Remove the foil on the bottom of the retrieval port. Thoroughly swab the retrieval port septum with a sterile alcohol wipe. Allow to air dry up to 1 minute before accessing.

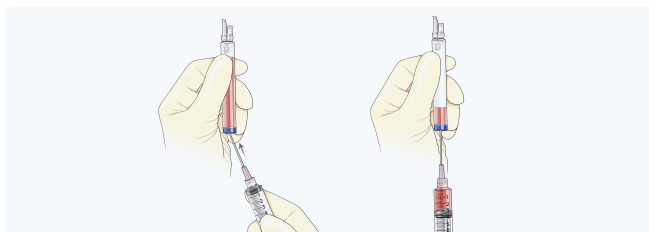


STEP 13

Use a non-coring needle and/or proper anti-coring technique (as described below) to puncture the retrieval port septum and extract the sample. It is recommended to use an 18G non-coring needle for this port.

Proper Anti-Coring Technique:

- Hold the needle with the opening of the needle tip away from the retrieval port septum.
- Insert the needle into the septum at a 45-60° angle.
- Increase the angle of the needle gradually as the needle enters the vial.



STEP 14

If used with infectious or hazardous bodily fluids, dispose of vial according to institutional guidelines for medical waste.

Manufacturer

Sexton Biotechnologies, part of BioLife Solutions 1102 Indiana Avenue Indianapolis, IN 46202



3303 Monte Villa Parkway
Suite 310
Bothell, WA 98021 USA
T +1.866.424.6543 / +1.425.402.1400
F +1.425.402.1433
E info@biolifesolutions.com
BioLifeSolutions.com

2026© BioLife Solutions.
All rights reserved.

Processing and
Handling Solutions

IG-SXB-260998_R01
CFD-0061