

CRYOLOCK®

Your Closed System Device for Vitrification of 1-cell Embryos

Vitrification is a technology that continues to gain popularity in oocyte and embryo cryopreservation not only for its efficiency, but also for its simplicity and reliability. CRYOLOCK® is an easy-to-use tool that can increase vitrification survival rates. CRYOLOCK® has been designed and developed specifically for vitrification and storage of 1-cell embryos (i.e., oocytes in pronuclear stage) under liquid nitrogen temperatures.

CRYOLOCK® is intended for use in IVF laboratories and research centers. CRYOLOCK® has a secure cap, which creates an airtight closure around the cryopreserved specimen. This unique feature ensures that direct contact with liquid nitrogen is avoided throughout the whole process, thereby preventing any possible risk of cross-contamination.

No extra equipment or accessories are needed for sealing or closing. CRYOLOCK® is very simple to label, load, close and store, accelerating the learning curve of the embryologists who will rely on its use.

CRYOLOCK® features:

- Manufactured of a single material for a better temperature coefficient under low temperature conditions. The CRYOLOCK® Device is made by mold injection using medical grade polystyrene.
- CRYOLOCK® achieves cooling rates of $-1494\text{ }^{\circ}\text{C}/\text{min}$ and warming rates of $+21000\text{ }^{\circ}\text{C}/\text{min}$ with optimal survival (84%) and developmental (99%) rates (tests using mouse 1-cell embryos).
- Gaps on the ends for secure and comfortable manipulation with forceps to avoid hazardous accidents.
- Exclusive cap design with a perfect hermetic fit for an ideal and easy to handle Closed System. The cap is a tapered cavity providing an airtight and dry sealing.
- The fine concave tip where the zygotes are placed provides protection against contact with other surfaces, avoiding loss or damage of specimens.
- The wide labeling surface facilitates a legible and clear patient identification.
- CRYOLOCK® will be available in pouches 5 units properly gamma-sterilized.
- CRYOLOCK® will be available in five different translucent colors: Orange, Yellow, Blue, Clear and Green.

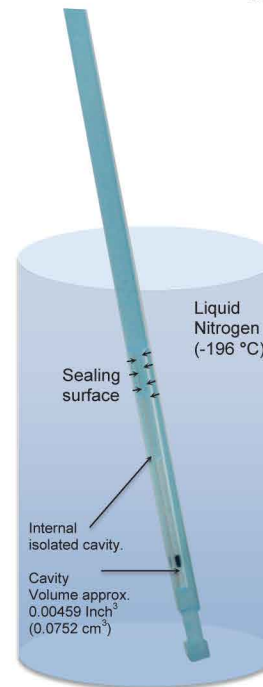
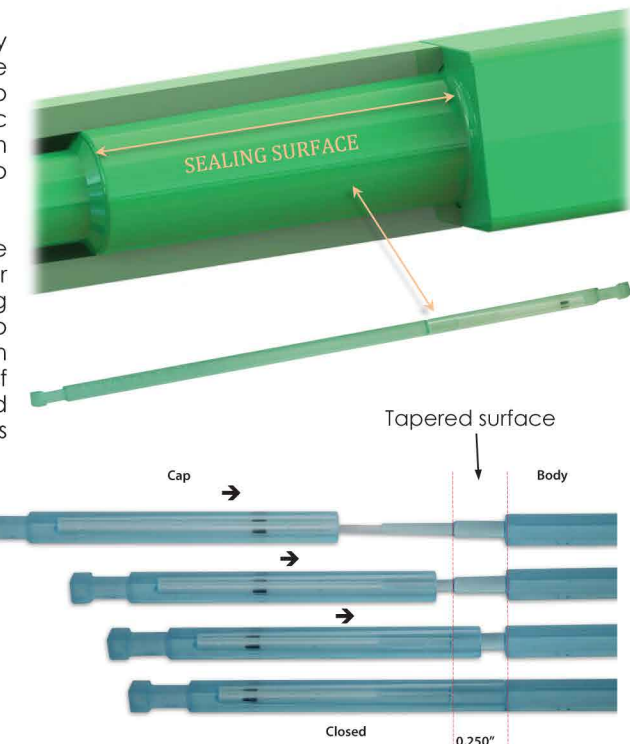
For Information go to www.biotechinc.com

CRYOLOCK – CLOSED SYSTEM

How Cryolock Capping Works To Avoid Direct Contact With Liquid Nitrogen

CRYOLOCK® cap and body have been designed to be complementary each other to make a secure and hermetic seal once the cap has been placed and tightened on the tip of the Cryolock.

The hermetic seal of the Cryolock is created by a conic or tapered surface of 0.250" long where Cryolock body and cap fits in a perfect seal creating then a closure able to keep the tip of the device isolated from Liquid Nitrogen once the Cryolock is submerged in the LN_2 .



While the device is stored inside the liquid nitrogen tank (dewar), LN_2 cannot recirculate inside the cap toward the tip because the cap is making pressure due to Liquid Nitrogen low temperature around the sealing area creating an internal isolated cavity. Cap shrinks over the sealing area because of low temperature.

Two independent tests were performed in two third party laboratories where Cryolock demonstrated that the barrier created by the sealing surface is able to keep the tip isolated even when the LN_2 is highly contaminated with bacteria; another physical test was performed to demonstrate the seal integrity of the Cryolock Closed System, being able to avoid direct contact of the embryos with LN_2 , therefore the risk of cross-contamination.

Always use Cryolock following the Instructions for Use (IFU) form LL-5006.

For Information go to www.biotechinc.com



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