The simplest and most efficient system for vitrification.



Available in 5 different colors: Orange, Clear, Blue, Yellow, and Green













Do not use if

package is

damaged.





Rx Only

FDA Cleared

510(k): K122982





Instructions for use before use



PRODUCT SPECIFICATIONS

Product information is identical unless otherwise noted.

Description:

- · The body is a square shape stick made of medical grade resin, has a fine concave tip where the embryos are placed.
- The cap is made of the same resin, provides an airtight seal by the coupling of two tapered surfaces in a 0.250" of sealing surface.

Dimensions:

- Crvolock® Body 4.56"L x 0.118"W x 0.118"H Tip width 0.050" Tip thickness 0.01" Cap 1.78"L x 0.118"W x 0.118"H
- S-Crvolock[®] Body 4.56"L x 0.094"W x 0.094"H Tip width 0.037" Tip thickness 0.01" Cap 1.78"L x 0.094"W x 0.094"H

Performance:

- Cryolock® Cooling rate ≅ -1,490°C/min Warming rate ≅ 21,000°C/min
- S-Cryolock® Cooling rate ≅ -3,320°C/min Warming rate ≈ 29.710°C/min

Certificate of Analysis:

Available upon request

- 1 cell MEA ≥ 80% expand blastocysts within 96 h.
- Endotoxin LAL ≤ 2 EU/device.
- Sterility: 25-40 kGy (SAL10⁻⁶).

For more information go to:

www.cryolock.info

Manufacturer by



5975 Shiloh Rd, Suite 101 Alpharetta, GA 30005 USA 1-800-313-7793

CRYOL®CK® S-CRYOL®CK®

CRYOLOCK FAMILY DEVICES



Closed System

Vitrification of 1-Cell Stage **Embryos**

Intended For Use:

Cryolock® Family Devices are cryopreservation storage devices that are intended for use in vitrification procedures to contain and maintain human 1-Cell stage embryos.

For non US-countries: For Oocytes and/or Embryos.

INSTRUCTIONS FOR USE

Warnings

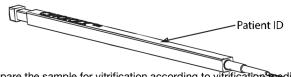
- All procedures must be performed under aseptic laboratory conditions.
- To avoid injuries with LN₂, wear protective gloves and glasses.
- <u>Do not use device if:</u> (a) Pouch or package is open or damaged, (b)
 Gamma indicator is yellow or missing, or (c) Expiration Date has expired.
- Before loading 1-cell embryos, verify integrity of device under microscope view, discarding any devices with cracked tips, scratched, brittle, with flash, bubbles, presence of foreign material or abnormal shape.
- For better survival rates, use 1-cell stage embryos within 18-24 hours post fertilization while 2 pronucleus are still visible. Use only with licensed media for the embryo stage being vitrified.
- Avoid direct contact of the tip of device at any time; with any surface or material different to vitrification/warming media or pipettes holding the specimens.
- Always use the device with its corresponding cap as it was originally packaged.
- To prevent accidental loss of embryos, perform loading and unloading of 1-cell embryos under microscope view, avoiding contact of the tip against other surfaces. (i.e. edge of petri dishes, or liquid nitrogen containers)
- Load specimens with a maximum of 1 µL of vitrification media, excessive media may cause low survival rates as well as attachment of the tip to the inner cavity of the device cap and possible breakage of tip or cap during warming.
- To avoid accidental rushing, or inappropriate time of exposure of specimens to vitrification solutions during loading and plunging into LN₂, perform ONLY 1 or 2 sets of embryos at a time.
- When plunging device into LN₂ always use a separate fresh aliquot LN₂ per patient. Be careful when releasing the device under LN₂, don't throw devices into LN₂, place them gently into the corresponding goblets previously equilibrated under LN₂.
- It is important that the container holding LN₂ be filled no less than 20cm (8"). Not doing so could cause the user to add unnecessary stress to the device and potentially causing the device to break.
- Do not re-sterilize or re-use Cryolock® or S-Cryolock® devices. Device properties may change decreasing device performance. Possible contamination, low survival rates, lysis and/or Embryo degeneration may occur.
- If device is dirty, discard it, DO NOT clean or wipe device tips with alcohol or equivalents, material properties may change.
- The long-term safety of 1-cell stage embryo vitrification on children born following this procedure is unknown.

Precautions

- <u>Caution</u>: Federal Law restricts this device to be sold only to a physician or practitioner trained in its use..
- The correct use of the device is responsibility of the user. For exclusive use of embryologists, biologists or laboratory technicians duly trained on cryopreservation techniques and vitrification protocols.
- For vitrification and warming purposes, have all necessary materials, tools and equipment ready and handy before starting procedures.
- For Laboratory use only. Not for diagnostic use.
 <u>Storage Instructions</u>: Store at room temperature
 <u>Disposable</u>: After each package containing 5 devices is opened, all devices need to be used or discarded. Cryolock® and S-Cryolock® is for single use only.

LOADING AND CLOSING

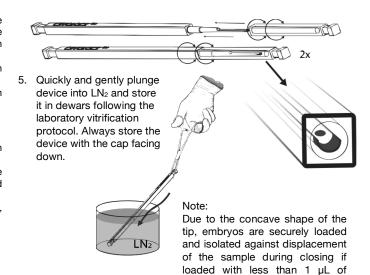
 With a liquid nitrogen-resistant label or a cryomarker pen, identify patient information, using the label on the same surface where Cryolock® or S-Cryolock® logo is engraved.



- Prepare the sample for vitrification according to vitrification media instructions.
- 3. Using a micropipette, carefully load a maximum of 2 embryos on the concave surface of the tip (same side of Cryolock® or S-Cryolock® logo) and about 3mm (1/8") from the inner edge of black mark (use black mark as a reference) removing any excess of cryo-protectant solution leaving as minimum volume of vitrification media as possible. (≤ 1 µL). Excessive media may cause low survival rates as well as attachment of the tip to the inner cavity of the device cap.



Immediately and before immersing the device into LN₂, carefully insert the device Tip into the Cap twisting tightly until secure, never bending the device.



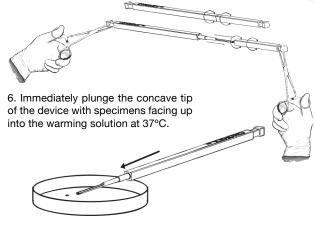
WARMING

- Prepare the warming solutions according to media instructions.
- 2. Identify the sample to be warmed.
- 3. Place the warming solution under microscopic view.



4. Using forceps hold the upper end of the device body facing up the identification label and quickly take it out from the LN_2

5. Using forceps, remove the capped device from LN₂, and then quickly remove the cap with a gentle twist pulling the cap straight and away from the device body.



- Under microscopic observation, gently shake the Cryolock® or S-Cryolock® until specimens are released from the tip.
- 8. Continue the warming according to media instructions.
- 9. Discard device after completion of procedure.

Note: Transition between steps 4 to 6 should be no longer than 5 seconds.

vitrification media.