



Cryolock® consists of the following two parts:

- 1). The body is a square shape stick (4.56”L x 0.118”W x 0.118”H) made of Polystyrene medical grade, has a fine concave tip where the embryos are placed.
- 2) The cap (1.78”L x 0.118”W x 0.118”L) made of the same material, provides an airtight seal by coupling of two tapered surfaces in a 0.250” of sealing surface.

PRODUCT SPECIFICATIONS:

1cell MEA ≥ 80% expand blastocysts within 96h

Endotoxin LAL ≤ 2 EU/Device

Sterility: SAL 10-6

Cooling rate of -1,494°C/min@-60°C

Warming rate +21,000°C/min

Available on different colors:

Clear, Blue, Green, Orange & Yellow



The Simplest and Most Efficient System for Vitrification



Read Instructions for use before use



Do not use if package is damage



Do not re-use, Do not re-sterilize Discard after procedure.



Sterilized by Radiation



Catalog Number: CL-R-CT



Lot Number



Expiration Date

Rx Only
FDA Cleared
510(k): K122982



EC REP
Atlantico Systems Ltd
34 Oldfield, Kingston
Galway, Ireland
+35391443609

Authorized Representative
in European Community



Manufacturer by
Biotech, Inc.
5975 Shiloh Road, Suite 101
Alpharetta GA 30005 USA
Customer Service
1-800-313-7793



Closed System

Vitrification of 1-Cell Stage Embryos

Intended For Use:

Cryolock® is a cryopreservation storage device that is intended for use in vitrification procedures to contain and maintain human 1-Cell stage embryos.

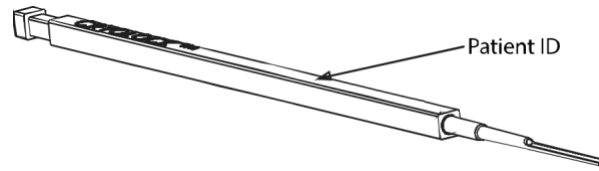
Warnings

- All procedures must be performed under aseptic laboratory conditions. To avoid injuries with LN₂, wear protective gloves and glasses.
- Do not use Cryolock®** if: (a) vial or package is damaged, (b) tamper evident seal is broken or missing, (c) gamma indicator is yellow or missing, or (d) Expiration Date has expired.
- Before loading 1-cell embryos, verify integrity of Cryolock® under microscope view, discarding any Cryolocks with tips cracked, 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 pronuclei are still visible. Use only with US licensed media for the embryo stage being vitrified.
- Avoid direct contact of the tip of Cryolock® at any time; with any surface or material different to vitrification/warming media or pipettes holding the specimens.
- Always use the Cryolock® 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 Cryolock cap and possible breakage of tip or cap when warming.
- Immediately and before immersing the Cryolock® into LN₂, carefully insert the Cryolock® Tip into the Cap twisting tightly until secure
- 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 Cryolock® into LN₂ always use a separate fresh aliquot LN₂ per patient. Be careful when releasing the Cryolock under LN₂, don't throw Cryolocks 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 Cryolock® device and potentially causing the device to break.
- Do not re-sterilize or re-use Cryolock®. Device properties may change decreasing Cryolock® performance. Possible contamination, low survival rates, lysis and/or Embryo degeneration may occur.
- If Cryolock is dirty, discard it, DO NOT clean or wipe Cryolock 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.

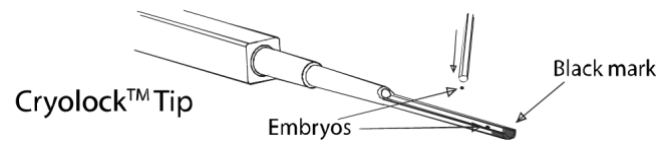
Precautions

- Caution:** Federal Law restricts this device to sale by or on the order of 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.
- Storage Instructions:** Store at room temperature
Disposable: After each vial containing 5 devices is opened, all Cryolocks need to be used or discarded. Cryolock® is for single use only.

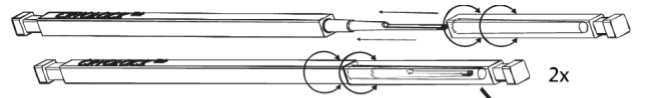
- With a liquid nitrogen-resistant label or a cryomarker pen, identify patient information, using the label on the same surface where Cryolock® logo is engraved.



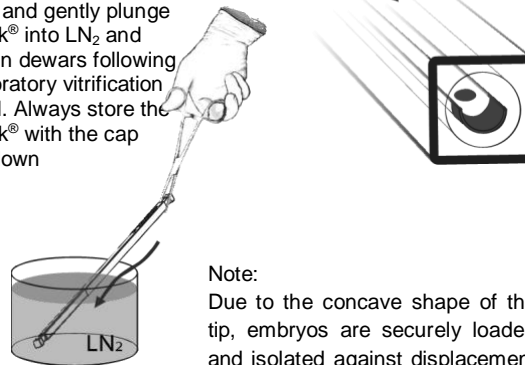
- Prepare the sample for vitrification according to vitrification media instructions.
- Using a micropipette, carefully load a maximum of 2 embryos on the concave surface of the tip (same side of Cryolock® logo) and about 3mm (1/8") from the inner edge of black mark (use black mark as a reference) removing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



- Immediately and before immersing the Cryolock® into LN₂, carefully insert the Cryolock® Tip into the Cap twisting tightly until secure, never bending the Cryolock



- Quickly and gently plunge Cryolock® into LN₂ and store it in dewars following the laboratory vitrification protocol. Always store the Cryolock® with the cap facing down



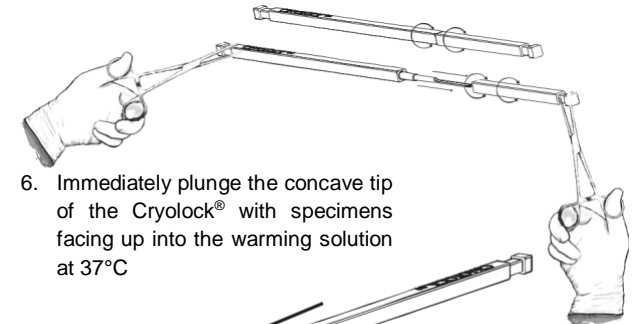
Note:
Due to the concave shape of the tip, embryos are securely loaded and isolated against displacement of the sample during closing if loaded with less than 1 µL of vitrification media.

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

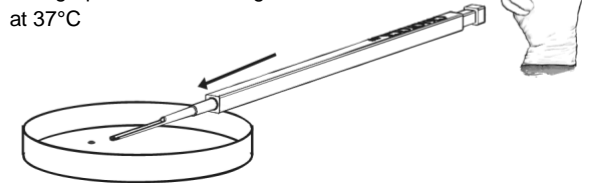


- Using forceps hold the upper end of the Cryolock® body facing up the identification label and quickly take it out from the LN₂

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



- Immediately plunge the concave tip of the Cryolock® with specimens facing up into the warming solution at 37°C



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

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