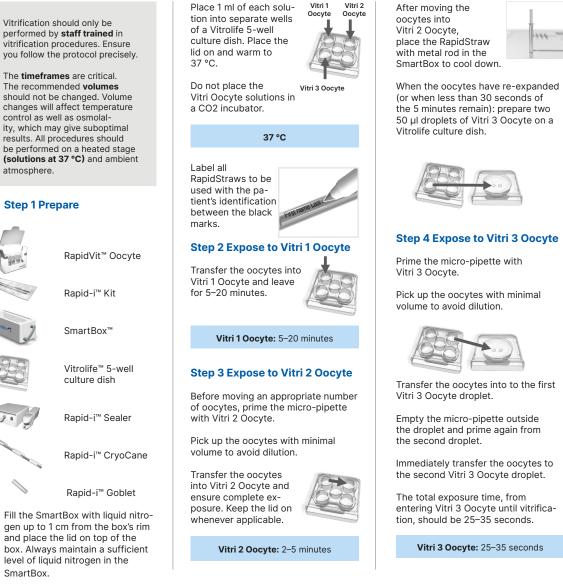
Rapid-i vitrification of oocytes

For detailed information, consult the Instructions for use for RapidVit Oocyte, RapidWarm Oocyte and Rapid-i Kit

Short Protocols Rapid-i Vitrification System



After moving the

Step 5 Load the Rapid-i

Before loading the oocytes on the Rapid-i, remove the metal rod from the RapidStraw and discard. Position the Rapid-i next to the Vitri 3 Oocyte droplets.

Collect the oocytes with the micropipette. Keep them close together at the tip of the pipette.

Load the oocytes into the Rapid-i hole, without overfilling or underfillina.

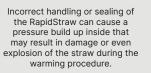
Step 6 Vitrify and seal

Immediately after loading, place the Rapid-i into the pre-cooled 444 RapidStraw in the SmartBox.

Cover the RapidStraw opening with your hand for a few seconds to prevent that the Rapid-i pops out.

> Seal the top of the RapidStraw using the Rapid-i Sealer.

Inspect the seal to ensure that sealing was correctly performed.



Step 7 Store



Move the RapidStraw into

the Rapid-i Goblet. The lowest black mark of the RapidStraw must always be submerged in liquid nitrogen.

Transfer to long term storage according to laboratory practice.

> The sealed RapidStraw may never be removed from liauid nitroaen.

Pre-caution: Discard product if bottle integrity is compromised. Do not use if solution appears cloudy. Ensure Rapid-i Kit packaging is intact and use by date has not expired. Ensure Rapid-i is intact before starting procedure.



SmartBox.

atmosphere.

Rapid-i warming of oocytes

For detailed information, consult the Instructions for use for RapidVit Oocyte, RapidWarm Oocyte and Rapid-i Kit

Short Protocols Rapid-i Vitrification System

The timeframes are critical. The recommended **volumes** should not be changed. Volume changes will affect temperature control as well as osmolality, which may give suboptimal results. All procedures should be performed on a heated stage (solutions at 37 °C) and ambient atmosphere.

RapidWarm[™] Oocvte

SmartBox™

Vitrolife[™] 5-well

Rapid-i[™] Cutter

Rapid-i[™] Forceps

Fill the SmartBox with liquid nitrogen

box's rim and place the lid on top of the box. Always maintain a sufficient level of liquid nitrogen

Place 1 ml of each Warm Oocyte solution into a Vitrolife 5-well

up to 1 cm from the

in the SmartBox.

culture dish.

culture dish

Step 1 Prepare

Place the lid on and warm to 37 °C.

Do not place the Warm Oocyte solutions in a CO2 incubator.



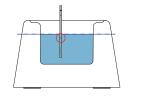
Warm 3 Oocyte Warm 4 Oocyte

37 °C

Remove the RapidStraw from the Rapid-i Goblet and place it in the slit of the lid where the magnet is located.



The lowest black mark of the Rapid-Straw must always be submerged in liquid nitrogen.



Step 3 Open RapidStraw

Hold the RapidStraw with your fingertips or Rapid-i Forceps.

Cut the RapidStraw just above the black tab of the Rapid-i, using the Rapid-i Cutter.



Lift the Rapid-i out of the RapidStraw using the Rapid-i Forceps, just enough to grasp the end with your fingertips.



Ensure that RapidStraw is opened by cutting, before it is removed from liquid nitrogen.

Step 4 Expose to Warm 1 Oocyte

Quickly (within 1 second) but carefully, move the Rapid-i and plunge it into Warm 1 Oocyte.



Verify that the oocytes are released in the medium and then remove the Rapid-i.

The total exposure time, from plunging the samples into Warm 1 Oocyte, should be 1 minute.

Warm 1 Oocyte: 1 minute

Step 5 Expose to Warm 2 Oocyte

Pick up the oocytes with minimal volume to avoid dilution.

Transfer the oocvtes into Warm 2 Oocyte and leave for 3 minutes.

Warm 2 Oocyte: 3 minutes

Step 6 Expose to Warm 3 Oocyte

Pick up the oocytes with minimal volume to avoid dilution.

Transfer the oocytes into Warm 3 Oocyte and leave for 5 minutes.



Warm 3 Oocyte: 5 minutes

Step 7 Expose to Warm 4 Oocyte

Pick up the oocytes with minimal volume to avoid dilution.

Transfer the oocytes into Warm 4 Oocyte and leave for 5-10 minutes.



Warm 4 Oocyte: 5–10 minutes

Rinse the oocytes in culture medium several times.

Culture according to laboratory practice.





Pre-caution: Discard product if bottle integrity is compromised. Do not use if solution appears cloudy.

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Step 2 Move RapidStraw to SmartBox

Collect the oocytes from long term storage.

Place the Rapid-i CryoCane with Rapid-i Goblet and the RapidStraw in the SmartBox.