

Sperm CryoProtect™ II

Intended Use: summary and explanation

Sperm CryoProtect™ II is a sterile salt solution containing glycerol, optimised for freezing human sperm.

Components

| | |
|--------------------------------|----------------|
| Sodium chloride | EDTA |
| Potassium chloride | HEPES |
| Magnesium sulphate | Glucose |
| Potassium dihydrogen phosphate | Glycerol |
| Sodium bicarbonate | Purified water |
| Sodium pyruvate | |
| Calcium lactate | |

Performance Characteristics

| | |
|---|----------------------|
| pH | 7.5-8.5 |
| Endotoxin levels | <1.0 EU/mL |
| Recovery rate of the original motile spermatozoa after freezing and thawing | >50% |
| Sterile filtered | SAL 10 ⁻³ |

Contents are tested by human sperm survival only
Bottles and stoppers are M.E.A. tested

Storage and Stability

Store at 2 to 30°C and avoid temperatures above or below these values. Under these conditions Sperm CryoProtect™ II has a shelf-life of 12 months. The expiry date is shown on both bottles and cartons.

Open and close bottles under aseptic conditions. After opening store at 2 to 8°C when not in use. Shelf-life on the product label applies when the product is stored according to manufacturer's recommendations.

No antibiotics, unstable additives or preservatives have been added by the manufacturer to Sperm CryoProtect™ II.

Precautions and Warnings

- Use aseptic procedures at all times
- Sperm CryoProtect™ II contains glycerol which is combustible. A material safety data sheet is available from the distributor or manufacturer (see nidacon.com)
- Do not use any solution which shows evidence of bacterial contamination or if stopper accidentally comes in contact with unsterile surfaces
- Do not use contents if tamper-evident seal is broken
- Do not re-use
- Federal Law (USA) restricts this device to sale by or on the order of a physician
- Please check for regulatory compliance governing the use of ART products in your country

Ordering Information

Volume
2x20 mL

Article No.
SCP-020

For further technical information or assistance, please contact your distributor or the manufacturer.



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Recommendations

Although it is possible to freeze unprocessed semen, we recommend that the ejaculate be prepared on a PureSperm® density gradient and washed with PureSperm®Wash before adding Sperm CryoProtect™ II. This method removes seminal plasma as well as ROS and their sources, thereby ensuring optimal recovery of motile sperm on thawing.

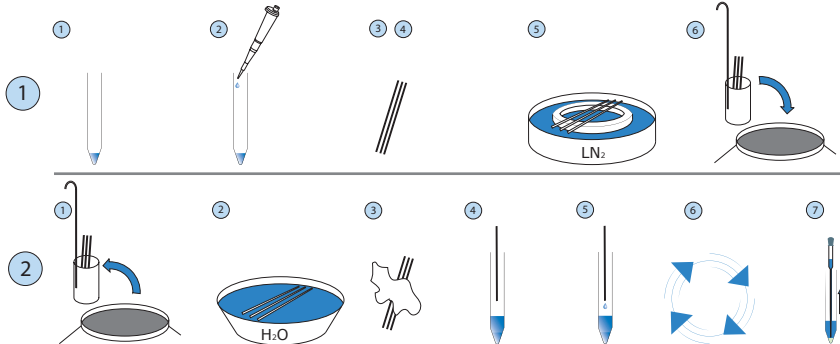
Reagents and Equipment

- Sperm CryoProtect™ II and PureSperm®Wash
- Cryofloater (can be obtained from your supplier)
- Sterile pipettes
- Disposable sterile conical centrifuge tubes (e.g. Falcon 2075)
- Disposable sterile cryopreservation vials or plastic straws

Freezing sperm with Sperm CryoProtect™ II

1a) Gradient-prepared sperm

1. Resuspend sperm pellet in a small volume of PureSperm®Wash to obtain desired concentration of sperm
2. Add 1 part of Sperm CryoProtect™ II to 3 parts of sample, ensuring thorough mixing after adding each drop (e.g 100µL SCP II to 300µL sperm sample)
3. Fill straws with sperm suspension and seal the straws
4. Equilibrate straws in refrigerator for 1 hr
5. Place the straws horizontally in nitrogen vapour about 1cm above the liquid nitrogen surface on the Cryofloater. Leave for 30 minutes.
6. Transfer the straws quickly into the liquid nitrogen and store in liquid nitrogen



1b) Unprocessed ejaculate

2. Add 1 part of Sperm CryoProtect™ II to 3 parts of sample, ensuring thorough mixing after adding each drop (e.g 100µL SCP II to 300µL sperm sample)
- 3-6. Continue as for gradient-prepared sperm

2a) Thawing of gradient-prepared sperm

1. Remove straw from liquid nitrogen tank
2. Place straw in water at 37°C for 30 secs
3. Dry surface of straw
4. Cut one end of straw
5. Resuspend contents in 5mL PureSperm®Wash by cutting the upper end of the straw. Any sperm suspension remaining in the straw can be expelled using a pipette
6. Centrifuge at 500 x g for 10 minutes. Do not use the brake
7. Aspirate PureSperm®Wash supernatant leaving as much liquid as required for desired concentration. If no pellet is seen, leave the bottom 100µL fluid

2b) Thawing of unprocessed ejaculate (not illustrated)

1. Follow steps 1-4 as for gradient-prepared sperm
2. Resuspend contents in 0.5-1mL PureSperm®Wash by cutting the upper end of straw. Any sperm suspension remaining in straw can be expelled using a pipette
3. Perform a density gradient preparation.