Manufacturer:

Distribution:

Gebrauchsanweisung SpermVD

Product Specifications:

Sterility: SAL 10-6

Endotoxin LAL: ≤20 EU/Device

Color: Clear

Cooling Rate: ≈ -1.5 °C/min

Warming Rate: ≈ +21,000 °C/min

Explanation of Symbols used:

Read instruction for use before use

Do not use if package is damaged

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

STERILE R Sterilized by Radiation

REF Catalog Number: SVD-1001

Non Pyrogenic

LOT Lot Number

Expiration Date

40°C 10°C Storage Temperature Limits

80 % Storage Relative Humidity Limits

CE 0483

Manufacturer Details (see header)

EC Authorized Representative:
MedNet GmbH, Borkstrasse 10, 48163, Münster, Germany

Vitrification of Sperm cells

1. In a Petri dish, individual sperm are first collected in small drops of sperm washing medium (eg GM501 SpermAir) under oil coating.

2. Using sterile forceps remove the SpermVD from the packaging under sterile conditions and place on a sterile surface (e.g. a Petri dish or Petri dish lid). (Figure 1)

3. Prepare a working solution of sperm freezing medium (from washing and freezing medium, e.g. 30 µl GM501 SpermAir and 21 µl GM501 SpermStore (1: 0.7). for the freezing solution. Three 0.5-1 µl drops are added to the appropriate wells of SpermVD. Immediately transfer the SpermVD to the Petri dish (item 1). It should be noted that the drops must be covered with oil. (Figure 2)

4. Using a micromanipulator and an ICSI pipette pre-filled with PVP solution, the individual sperm are transferred to one or more freezing drops. (Figure 3)

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5. Freeze the loaded SpermVD with the sperm within 10 min of adding the first cell.

6. Using sterile tweezers, carefully dispense the SpermVD with the sperm from the Petri dish (allowing the excess oil to drain well) into a cryo-safe labeled 1.8-3.6 ml cryotube. (Figure 4)

Recommendation: do not close the tube tightly so that the liquid nitrogen can gradually penetrate and fill the tube promptly after being placed in the liquid nitrogen, thereby allowing safe handling of the cryotubes with the SpermVD.

7. Transfer the cryotube with SpermVD directly into the liquid nitrogen for long-term storage. (Figure 5)

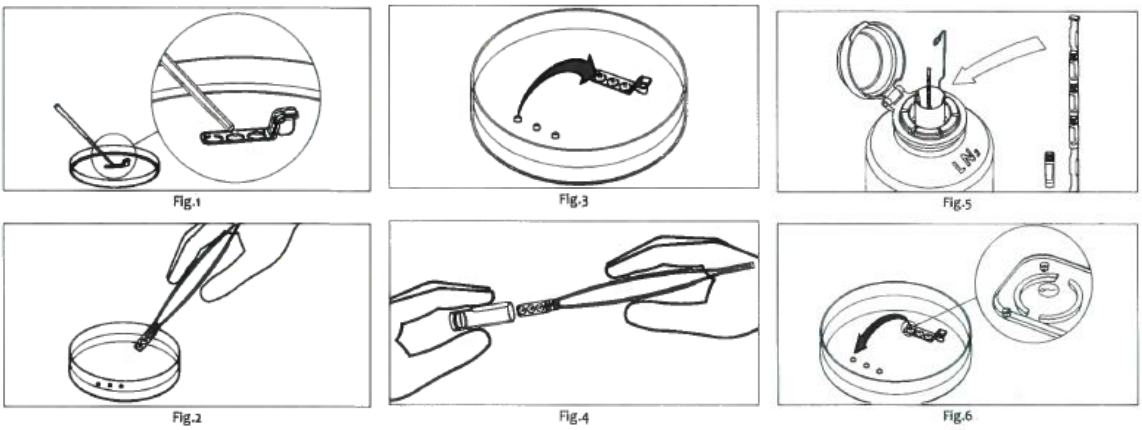
Thawing

1. Prepare a Petri dish (50-100 mm) with PVP drops and sperm wash medium (e.g. GM501 SpermAir) drops with oil overlay (transfer dish).

2. Bring the cryotube directly into room temperature with the SpermVD liquid nitrogen and leave the tube unopened for 5 min at room temperature.

3. Remove the SpermVD from the cryotube with sterile forceps and place in the Transfer Bowl. The drops with the sperm must be covered with oil.

4. Using a micromanipulator and an ICSI pipette, transfer the sperm into the sperm washing medium drops at 20x magnification from the SpermVD. (Figure 6)



Please also note the detailed illustrated instructions SpermVD protocol v6.0. These can be found on our homepage https://gynemed.de/produkte/spermvd/ .