

Conception Technologies

Semen CMC

Semen CMC is a pelletized frozen semen product for RESEARCH USE ONLY. The product provides two evaluation points, one normal and one abnormal (low), which if run daily, can be successfully utilized as a key element in your laboratory Quality Assurance Program for sperm concentration and motility.

Complete analytical data for concentration and % motility is provided with each lot of Semen CMC. This data is the result of multiple site testing of representative samples of the lot. Since inter-lab variation resulting from differences in procedure and technique may occur, it is best to establish your own mean for your laboratory, and the subsequent acceptable deviation from that mean, to meet your Quality Control requirements.

Packaging

Semen CMC is packaged in sleeved cryo-canes with 25 pellets per cane. Each cane contains 5 cryo-vials, each with 5 pellets. Individual canes will contain only one value sample. Each cane will be clearly labeled with lot number and whether it is a normal or low (abnormal) sample.

Handling of Semen CMC Upon Receipt

- 1) Transfer the Semen CMC canes to a liquid Nitrogen storage tank immediately upon receipt. Do not expose the product to ambient environment for more than 5-10 seconds.
- 2) Thaw pellets as needed using the thawing instructions provided.

Reagents and Equipment Necessary to Thaw the Sample

- 1) Thawing Block (Conception Technologies Catalog # CMC-T)
- 2) Forceps
- 3) Positive Displacement Pipette
- 4) Timer
- 5) Insulated Gloves for Handling Cryogenic Material

PROCEDURE: Insulated Gloves Should be Worn

- 1) Identify desired pellet canes in storage tank.
- 2) Elevate pellet cane with one gloved hand and lower the sleeve with the other hand to exposed the top cryo-vial.
- 3) Remove and uncap the top cryo-vial, and quickly remove the required pellets. Recap and replace the cryo-vial into the cane, and re-sleeve and replace the cane into the liquid Nitrogen. IMPORTANT! Pellets should not be out of nitrogen or above the frost level for more than 5-10 seconds or the quality of the sample will be compromised.
- 4) Place pellets only in a CMC thawing block to room temperature before use. Do not use an elevated Temperature water bath or microwave oven to thaw pellets. Incorrect thawing will result in reduced post-thaw motility.
- 5) Set timer for 10 minutes and start.
- 6) After 10 minutes, prepare sample for post-thaw evaluation. Evaluate sample between 10-20 minutes to ensure post-thaw. Be consistent with post thaw time when testing day to day.
- 7) Load MicroCell disposable counting chamber with sample and proceed with analysis.



CONCEPTION
TECHNOLOGIES

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