



Canada Cryobank Instructions for Semen Identification, Thawing and Specimen Quality Standard

This shipper contains semen as Donated Human Tissue (for Anonymous/ID Options Donors) for assisted reproductive techniques. See the enclosed Summary of Records (SOR) for testing information. The enclosed paperwork with the shipment also contains information regarding the extender, wash media (if applicable) and any antibiotics.

Storage:

Specimens may be held in the shipper for a limited amount of time, please see the shipping documents for information specific to the type of shipper you have received. If the specimens are not to be used imminently, they must be stored in an appropriately designed liquid nitrogen Dewar. Exposure to temperatures warmer than -130 °C will be detrimental to sperm integrity and viability. Do not thaw and refreeze the specimens, as they are highly sensitive to temperature changes. The semen may not be sterilized.

Safety information:

Liquid nitrogen is non-toxic, non-flammable, non-carcinogenic and chemically inert. The temperature of the cryogenic liquid is -196°C (-321°F). Contact with liquid nitrogen can cause tissue freezing or frostbite on dermal contact or if splashed into the eyes. Nitrogen is defined as a simple asphyxiant, use only in well-ventilated areas. Prompt medical attention is mandatory in all cases of overexposure to nitrogen. In case of emergency resulting from the handling of liquid nitrogen shipping container or specimen containers frozen in liquid nitrogen, call your local emergency service provider. Contact Canada Cryobank at 1-905-407-8673 with any questions regarding proper handling of shipping containers. Use of cryogloves to handle the nitrogen cooled canes and cryovials is recommended. Use of safety glasses is also recommended.

Special Note:

The cryopreserved semen contained in our shipper is intended for use by the requesting physician and his/her staff. The specific specimen identified on the Packing Slip is to be used only for the indicated patient (recipient). The physician/clinician is responsible for maintaining the cryopreserved semen specimen in the proper storage conditions until the specimen is thawed and prepared for insemination. The physician/clinician is responsible for maintaining recipient records for the purpose of tracking the semen and recording insemination outcomes. The dosage is one vial per insemination (unless noted). Additional doses of the same donor may be used according to the physician's advice. Although every reasonable precaution has been implemented, the insemination procedure may produce adverse reactions outcomes such as cramping, nausea, or vomiting. Communicable diseases, such as STDs and genetic anomalies may potentially be attributed to the cryopreserved semen used during the insemination. **ALL ADVERSE REACTIONS/OUTCOMES MUST BE REPORTED PROMPTLY TO** Canada Cryobank at 1-905-407-8673. Once a container seal has been compromised (or semen thawed), the semen shall either be inseminated or used in an ART procedure or discarded.

Specimen Identification:

The post thaw analysis and identification label for each specimen is listed on the SOR. Individual specimens are packaged in 1 ml cryovials, which will contain the donor semen, and cryoprotectant buffer. Some vials may contain antibiotics and/ or egg yolk, see the SOR for information specific to each cryovial.

Each cryovial is labeled with the donor ID number, vial number, and date frozen.

Specimens are contained in cryovials on aluminum canes labeled with the donor ID number. Each cane is inside a single canister found in the liquid nitrogen shipper. Each cane will contain only the specimens for a single donor. The shipper contains an absorbent material that holds the liquid nitrogen to prevent spillage. You will not be able to see any liquid in the container. If you have any questions, please discuss with your Laboratory Director and/or call Canada Cryobank at 1-905-407-8673.



Removing Units from the Shipper:

Please read all enclosed paperwork included in the shipment prior to removal of the samples for thawing and use. Use of cryogloves to handle the nitrogen cooled canes and cryovials is recommended. Use of safety glasses is also recommended.

To remove a specimen from the nitrogen container, follow these steps:

1. Remove the lid of the liquid nitrogen container by pulling straight up (do not twist).
2. Lift the canister so that the tops of the canes are visible for identification. Do not lift the top of the canes above the top of the liquid nitrogen container opening; this may result in premature thawing.
3. After identification of the desired cane, grasp the cane by the top and lift above the opening of the container sufficiently to expose the uppermost cryovial. It is recommended to only expose the cryovial you wish to retrieve. Any cryovial(s) below the top one should not be lifted above the opening of the container.
4. Check the packing slip and compare it to the number of cryovials in the canister- some units may have fallen off the canes during shipping and are at the bottom of the canister.
5. Once exposed, use cooled forceps to grasp the cryovial and remove it from the aluminum cane holder. Replace the cane into the canister as quickly as possible, lower the canister to the bottom of the nitrogen container and replace the container top securely.
6. Wrap the vial in a paper towel for several seconds.
7. Follow the thaw procedure as listed below:

THAW PROCEDURE “V”

1. Always keep the vial in an upright orientation while thawing.
2. Place the frozen vial in a dry block at 37° Celsius for 10 minutes. Remove from the thaw block promptly after thawing.
3. Once the specimen has thawed completely, wipe any condensation from the outside of the cryovial and then unscrew the cryovial cap. Gently, but thoroughly, mix each specimen in its respective cryovial using a vortex or by pipetting up and down using a 200 ul pipet tip or sterile 1 ml pipette, before removing semen from the cryovial. Prompt use of the specimen is recommended for best results.
4. Perform a post-thaw evaluation at the time of thaw and before any additional processing. Place 10 µl of the recently mixed specimen on a microscope slide, cover with a 22 x 22 mm cover slip, place on 36° C slide warmer, and allow to equilibrate for 5 minutes. Determine total motility and follow individual lab protocol using the preferred counting chambers to determine total concentration
5. Verify the specimen identification prior to insemination.

