

TANK TO TANK TRANSFER

As with any investment in business, correct management is needed to preserve value. Careful handling of the Semex product (semen or embryos) maintains its integrity and quality. Follow these guidelines to deliver the best possible quality product to your client.

1. Keep canister BELOW frost line at all times.
2. Canister should only be in neck of tank for a maximum of 10 seconds, and should be returned to liquid nitrogen for at least 20 seconds before raising it again.
3. Minimize tank to tank transfer to as few transfers as possible (do not make a semen transfer unless it is 100% necessary).

Tip - If canister bubbles when placed back into Liquid Nitrogen (N₂), it has been elevated too long.

Risk - All straws in the canister can undergo damage if above -140 degrees C for over 5 seconds, damage to semen is additive, each transfer poses an additional risk to semen quality.

4. Tanks should be placed side by side and individual straws or canes should be in open air for no more than 5 seconds.
5. If straws are being transferred to a new cane that cane should be pre-frozen before transfer occurs.
6. Transfer should take place out of direct sunlight or wind (both tanks).
7. Transfer of individual straws should be done with tweezers that have been pre-chilled in dewar transfer tank.



Semen exposed to open air for more than 5 seconds will suffer significant losses in motility and fertility.

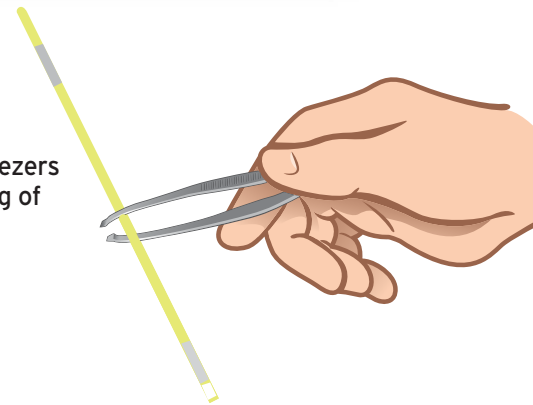
Semen in direct contact with hands for even 3 seconds will be warmed to over -140 degrees causing significant loss in motility and fertility.

Clients who see you using fingers to handle straws will lose faith in Semex's commitment to the Gold Standard.

Tanks should be placed side-by-side to reduce the time a cane is out of the tank.



Properly cool forceps or tweezers before handling of semen.



Remove canister from its storage position and work below the frost line. Canisters should be in neck of tank for no longer than 10 seconds.

KEY MESSAGE

Each additional semen handling step poses an additional risk to the quality of our product, even if handling is done correctly. Incorrect or additional handling poses a severe risk to the fertility of our products, and our relationship with our clients.