

VYTELLE EMBRYO THAWING PROCEDURE.



Equipment

- Liquid nitrogen tank with embryos
- Tweezers
- Thermos or electric thaw unit
- Thermometer
- Paper towels
- Stopwatch or clock
- Embryo transfer (ET) gun
- ET sheath
- Chemise sheath protector
- Electric gun warmer



1. Prepare warm water—95°F (35°C)—in thaw unit. Set the liquid nitrogen tank on a level surface, out of direct sunlight and wind. Room temperature should be between 60°F and 80°F.
2. The technician should palpate recipient cow for a corpus luteum before embryos are thawed. When a recipient cow has been approved for an embryo, locate embryos in the liquid nitrogen tank and remove top goblet below frost line. Use tweezers to remove one straw.

3. Hold the embryo straw in the air for 10 seconds, followed by submerging in the 95°F water bath for a minimum of 30 seconds.
4. Remove the thawed straw from the water bath and dry thoroughly with a paper towel. Remove straw top/plug and load the straw, cotton plug first, into a warm ET gun. Pull ET sheath and protective chemise over gun, and place in gun warmer until transfer. Embryos should be transferred within 5 minutes of thawing for best results.
5. Record the following information for embryo transfer certificates:
 - Recipient cow ID
 - Embryo mating
 - Straw number
 - Side of implantation—right or left
6. Calculate pregnancy check dates for 35 to 90 days post transfer, as well as projected calving date (average 280 days gestation).



STEP 4

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