Shipping Protocol for Samples at 5 °C
USDA-ARS-National Animal Germplasm Program
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Fort Collins, CO
970-492-7500

Contents of Impact Shipper (Photo 1):
- Cooling packs- to be stored at 5 °C (41 °F) upon arrival
- Media (represented as a packet of AndroPro Plus in this photo)
- Two zip lock bags containing 15 or 50ml Falcon tubes
- UPS or FedEx shipping label- should be in sleeve behind incoming address label

Collect and cool the samples as described in the protocol specific to the type of germplasm.

Directions for packing the shipping box (After the germplasm is collected, diluted, and cooled to 5 °C):
1. Dry off the tubes, place them in the Zip Lock bags provided in the same position in which they were shipped (Photo 1)
2. Place bags of tubes into the bottom of the Impact Shipper (Photo 2)
3. Place the 5 °C cooling packs on the semen tube bags (Photo 3)
4. Close the insulation lid over the samples and cooling packs ensuring that the insulation lid lays flat and the contents are completely covered with the insulation (Photo 4).

In order to maintain the proper temperature of the samples, it is imperative that no dead space is present in the Impact Shipper. Do not include unused tubes inside the insulation but instead fill any empty space with cooling packs equilibrated to 5 °C. Do not use any other packing material to fill space in the box. Excess cooling packs can be placed on top of the insulation within the box (Photo 4).
5. Seal the Impact Shipper box with packaging tape and ensure that the shipping label addressed to NAGP is visible.