

**BLOOD SAMPLE COLLECTION**

To describe how to safely collect blood samples from cattle.

2.1 Trained and Qualified Personnel

2.2 Veterinarian

- 4.1 Minimal restraint is usually required to obtain blood samples from a cow (ex. haltering and restraining her head). If restraint is necessary, it should be executed to ensure quick, easy, and safe collection of the sample causing minimal distress.
- 4.2 A maximum number of three venipunctures should be attempted per sampling site and time point.
- 4.3 For multiple samples to be collected over a short time frame (e.g., excess of 10 punctures in a 24-hour period), a butterfly needle, percutaneous (over the needle) catheter, or another type of catheter fixed in position should be utilized rather than repeated needle punctures.

**TABLE.1: NC3Rs Blood**

- 5.6.3 Insert the vacutainer tube into the other end of the Vacutainer holder. DO NOT puncture the stopper.
- 5.6.4 Hold these assembled materials in one hand.
- 5.6.5 Disinfect the venipuncture site with alcohol.
- 5.6.6 Occlude the jugular vein by applying pressure in the jugular groove located in the lower neck. (Fig. 2)
- 5.6.7 Position the needle bevel-up and insert it into the distended jugular vein at a 45° angle cranial to the jugular groove. (Fig. 2)







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