



Intended Use

This information sheet contains instructions needed to collect animal test samples for submission to Antel BioSystems, Inc. (AntelBio) for diagnostic testing. Test sample collection requires preparation. Please read through the entire instruction sheet before beginning the sample collection process.

Sampling for Diagnostic Testing

Please contact AntelBio at **(800) 631-3510** to obtain a Customer Information Packet.

- **Sampling for Diagnostic Testing**

- o The animal's on-farm ID number must be clearly written on the Sample Submission Form as well as on the outside of all sample containers with a permanent marker.
- o Select the AntelBio Testing Services you would like to have conducted on the Sample Submission Form.
- o Write special instructions or comments on the Sample Submission Form.
- o Keep shipping container and foam cooler in the farm office, so it does not become soiled or contaminated.
- o **Place ice packs in freezer 24 hours before** sampling so that the ice packs are frozen for shipping.

Never thaw and re-freeze frozen samples! Please note special handling required for BVD and Progesterone testing - see below.

- **Fecal Sampling**

- o Wear plastic sleeves while sampling. Change sleeves for each animal.
- o Fill **half** of a small (<40mL or 2oz), clean, plastic container with fecal matter obtained directly from animal being tested.

- **Serum Sampling**

- o Draw approximately 2mL of blood from tail vein (or other convenient vessel) into a Vacutainer® or similar tube.
- o Use a new needle for each animal to prevent cross-contamination.
- o **Leave tubes at room temperature for approximately 1 hour** before shipping or refrigeration to allow for clotting.

- **Milk Sampling**

- o For meter collection, transfer 40mL of milk to vial (with preservative tablet) and shake vigorously.
- o For hand stripped samples, strip teat first and milk 10mL from each quarter into container and shake vigorously.
- o Samples for testing can generally be obtained from DHIA organizations, contact AntelBio to assist with arrangements.

- **Bulk Tank Sampling**

- o After milking is complete and the bulk tank has been fully agitated, obtain a representative sample and place in a sanitary, leak-proof container, such as a DHI vial.
- o If using a preservative tablet, shake sample vigorously, if no preservative is available, ship samples chilled and with ice packs.
- o See table for sampling specifications. **BVD BULK MILK SAMPLES SHOULD NOT BE FROZEN!**

- **Tissue Sampling**

- o Making sure ear is free of as much dirt and feces as possible, use small "V" type ear notch pliers to snip a piece of tissue from the lower outside edge of the animal's ear.
- o Place the tissue sample in the provided vial, a blood tube or other similar container.

- **Sampling for Progesterone Testing:**

Freeze milk and serum samples and ship on ice!

- o Serum: Soon after samples have clotted, harvest serum and place in new tube, label new tube with Animal ID, discard clotted portion.
- o Milk: Obtain 10 mL of hand-stripped sample from one normal quarter.



Test For:	Sample Type	Collection Source	Volume Needed	Test Method:			
				ELISA	Hyper ELISA (Bulk Tank) [†]	PCR [†]	Culture
Johne's	Milk	DHI/Hand-Stripped/Bulk Tank	1mL	Fresh/Frozen/Preserved	Fresh/Frozen [†] /Preserved	-	-
			50 mL	-	-	Fresh/Frozen [†] /Preserved	-
	Serum	Tail or other suitable vein	2mL	Fresh/Frozen (serum only)	-	-	-
	Feces	Rectum	~ 3 oz or 40 grams	-	-	Fresh/Frozen [†]	Fresh/Frozen
Leukosis	Milk	DHI/Hand-Stripped/Bulk Tank	1mL	Fresh/Frozen/Preserved	Fresh/Frozen [†] /Preserved	-	-
	Serum	Tail or other suitable vein	2mL	Fresh/Frozen (serum only)	-	-	-
BVDV	Milk	DHI/Hand-Stripped	1mL	Fresh/Frozen/Preserved	-	-	-
		DHI/Hand-Stripped/Bulk Tank	0.5mL per cow - Max 250 cows/sample	-	-	Fresh/Preserved	-
	Serum	Tail or other suitable vein	2mL	Fresh/Frozen (serum only)	-	-	-
			4mL	-	-	Fresh/Frozen [†]	-
	Tissue	Ear Notch	1 cm ²	Fresh/Frozen	-	Fresh/Frozen [†]	-
Progesterone	Milk	Hand-Stripped	2mL	Frozen	-	-	-
	Serum [†]	Tail or other suitable vein	2mL	Frozen [†] (serum portion only)	-	-	-
Neospora	Serum	Tail or other suitable vein	2mL	Fresh/Frozen (serum only)	-	-	-
Contagious Mastitis	Milk	DHI/Hand-Stripped/Bulk Tank	2mL	-	-	Fresh/Frozen [†] /Preserved	-
PAG (Pregnancy)	Serum	Tail or other suitable vein	2mL	Fresh/Frozen (serum only)	-	-	-

* Thawing frozen milk samples can potentially lead to large amounts of precipitate, which may interfere with ELISA and PCR, resulting in inconclusive results. Properly frozen and stored samples can be used, but submitters should understand resampling may become necessary.

[†]Serum must be harvested as soon as possible; all samples for progesterone testing should be frozen prior to shipment.

Antel BioSystems, Inc.

4200 Forest Road Bldg A. Lansing, MI 48909

ph: 800.631.3510 fax: 517.351.5610