

Sampling for BioPRYN

Supplies Needed: Cow

1. 7mL red top Vacutainer blood tubes (one per cow)
2. 18 or 20 gauge x 1 inch vacutainer blood collection needles (one per cow)
3. Vacutainer needle/tube holder
4. Permanent marker (sharpie)
5. Sample submission form

Test Name	Samples must arrive on or prior to the time and/or day listed below	Test Days	Report Day
BioPRYN® Cattle or Goat/Sheep	By 2:00 pm of the testing date	Tuesday and Wednesday	Wednesday and Thursday

Collecting Blood Samples (Cow):

1. Write cow ID number on tube with sharpie.
2. Attach needle to the needle/tube holder.
3. Raise the tail of cow.
4. On the underside of the tail, about 4 to 5 inches from the base, on the flat base of the vertebrae insert the needle in the midline about 1/4 to 1/2 inch.
5. Push tube into the needle/tube holder and onto the needle.
6. Probe with needle, keeping it under the skin, until blood fills the tube with 2 to 5 mL of blood.
7. Remove the tube and the needle.

Keep all samples cool and out of the elements, in a cooler with an ice pack during the heat of the summer and out of freezing temperatures during the winter.

Shipping Samples: Cow or Goat/Sheep

1. Securely package samples - use packing materials to prevent samples from breaking. Secure in plastic bags.
2. Include client information - Name, Address, Phone number, Fax Number, Email address
3. Include check if not an established client.
4. Ice not required, unless outside temperature is above 100 degrees.
5. Ship overnight if possible - prevents samples from sitting in a non temperature controlled environment (freezing/overheated warehouses).

Shipping address/Contact Us

Ag Health Laboratories
445 Barnard Blvd.
Sunnyside, WA 98944
509-836-2020

Frequently Asked Question about BioPRYN

What is BioPRYN:

BioPRYN is a partial acronym for "Pregnant Ruminant Yes/No". BioPRYN evaluates ruminant blood for the presence of Pregnancy Specific Protein B (PSPB). PSPB is produced by the placenta. BioPRYN delivers fast, accurate, safe, and economical results. BioPRYN eliminates the risks and stress of rectal palpation.

At what stage of pregnancy can a cow be tested with BioPRYN

Heifers and Cows can be tested for pregnancy at 28 days or later, after breeding, and cows must be at least 73 days post-calving.

What is the accuracy of BioPRYN:

Open Cows: 99-100%

False positives typically occur due to sampling too early for detection

Pregnant Cows: 91-95%

False positives typically occur due to embryonic death. Embryo could be dead or dying at the time of sampling, or dies soon after sampling.

Can BioPRYN tell how far along a cow is:

BioPRYN only detects if PSPB is or is not present.

Why use BioPRYN instead of palpation:

BioPRYN allows producers to know seven to ten days sooner than rectal palpation. BioPRYN is more or just as cost effective as palpation. BioPRYN is also more convenient for both the producer and the veterinarian, because farm personnel can draw the samples freeing the veterinarian's time to concentrate on higher priority issues. BioPRYN's early detection abilities can reduce days open by earlier detection of open cows.

