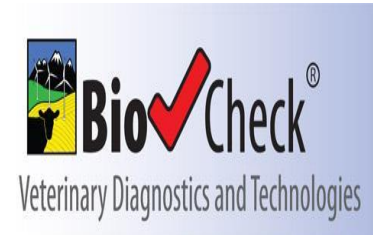




BioPRYN Testing



BioPRYN is an ELISA test that is used for detecting pregnancy in ruminants. It does this by detecting a protein referred to as Pregnancy Specific Protein B (PSPB). This protein is produced by the placenta, and can be detected in the blood serum or plasma of these animals.

Cattle can be tested as early as 28 days post breeding. Goats and sheep need a minimum of 30 days and bison and yaks require a minimum of 40 days post breeding to be tested.

It is recommended that cattle should not be tested prior to 90 days post calving. The PSPB can remain in the system for approximately 73 days after calving. This means that if cows are tested too early, residual PSPB from the previous pregnancy could be detected, giving a false positive. A recheck test for pregnant animals should be completed at 75+ days post breeding.

The BioPRYN test has been shown to have 99% accuracy in detecting an open outcome, and 95% accuracy in detecting a pregnant outcome. False positives tend to be higher due to the fact that residual PSPB can remain in the bloodstream for several weeks following early embryonic death, therefore, it can appear upon testing as though the animal is pregnant even though she no longer is.

Blood samples should be acquired from the jugular or tail vein, and collected into individual vacutainer tubes. A fresh needle should be used for each animal to avoid cross contamination. Samples can be collected in red, purple or tiger top tubes, and stored standing upright to help with serum separation until they are ready to be delivered to the lab. At least 2 mL of blood is recommended per sample. If samples are being shipped, they should be well packaged in Styrofoam, paper or bubble wrap to avoid breaking or spilling. Ice packs are not typically required unless the weather is forecasted to be particularly hot.

The lab is open Monday to Friday from 8:00 am to 4:00 pm. Samples received by noon will be run the same day with results reported before closing. If you have any questions about pricing or about the test, please contact us at 403-732-5322.

Samples can be COURIERED to:

**Livestock Veterinary Services
424 Highway Avenue
Picture Butte, AB
T0K 1V0**

Samples can be MAILED to:

**Livestock Veterinary Services
PO Box 1189
Picture Butte, AB
T0K 1V0**