



Herd Health Diagnostics
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bioPRYN[®]
CATTLE
Frequently Asked Questions

Q: What is BioPRYN?

A: BioPRYN[®] is the first and leading protein-based blood pregnancy test that delivers fast, accurate and economical pregnancy diagnostic test results by a simple blood sample. Applications of this technology have been documented in scientific and veterinary based publications since 1982.

The BioPRYN enzyme-linked immunosorbent assay (ELISA) test evaluates the blood (more specifically, the serum or plasma) of bovine species for a protein called Pregnancy Specific Protein B (PSPB). PSPB is produced by the placenta of an animal with a growing fetus and concentrations can be accurately measured in blood as early as 28 days post breeding in cows and 25 days post breeding in heifers by artificial insemination (AI) or bull breeding. Additionally, BioPRYN can be applied at 25 days post embryo transfer (i.e. 32 days age of embryo).

Q: How much does it cost?

A: \$2.50 per sample for next day results and \$3.50 for same day results

Q: How long does it take to receive results?

A: Samples are tested daily with results sent the next day. Samples that arrive on Friday are reported the following Monday. Same day results are available and the cost is \$1.00 more per sample for this service. Use the BioPRYN Quick submission form for this option and ship/drop off samples so that they arrive by noon Pacific Time.

Q: How long are samples good for and how do I ship?

A: Samples are good for quite some time (up to a month) when stored in the refrigerator. Samples should be stored in the refrigerator until ready to ship. Samples may be shipped through any carrier and any method without ice year around. We recommend shipping samples in a cardboard box versus a padded envelope. See detailed shipping instructions for more information.

Q: How much sample do I need to collect?

A: The test requires 100 microliters of serum (0.1 milliliters) for testing therefore ~2 mls of whole blood is enough.

Q: Can multiple tests be run on one sample?

A: Yes! One sample can be used for multiple services. Additional services available for cattle include: Bovine Viral Diarrhea (BVD), Bovine Leukosis Virus (BLV) and Johnes. When using one sample for multiple services, be sure to collect 1-2 milliliters of blood for each service (i.e. if wanting 3 tests, collect about 6 mls of blood).

Q: What blood collection supplies do I need and where do I buy it?

A: We recommend a plain 3-5 ml, plastic, red top tube (with or without clot activator) or serum separator tube (tiger). If using a tiger top tube, be sure to fill the tube $\frac{3}{4}$ full or more. We recommend using an 18 or 20-gauge double sided needle by 1 to 1 $\frac{1}{2}$ inches long. You may also use a syringe and then transfer to a blood tube as well. If you need help deciding what is best for you, contact Herd Health Diagnostics.

Supplies can be purchased through the BioTracking Store, your local vet supply or ranch or farm store. There are also many online stores such as Amazon who sell supplies.

Q: How do I label tubes for testing?

A: Each tube should be labeled in sharpie with a tube sequence number (e.g. 1, 2, 3, etc.) and unique animal ID or ear tag # (e.g. 875).

Q: Who do I contact for more information?

A: Contact Amber at Herd Health Diagnostics from 8:30 am to 4 pm Pacific Time, Monday – Friday. The office number is 509.715.1131 and her email is amber@herdhealthdiagnostics.com