

bioPRYN[®] Pregnancy Test



Non-invasive • Quick Response • Accurate • Embryo Safe • Quality Assured Pregnancy Test

The Benefits: Why should dairy producers use BioPRYN?

- Allows the veterinarian to concentrate on preventative medicine and treatment
- More cost-effective than rectal palpation
- BioPRYN is convenient:
 - Tests conducted according to the dairy manager's schedule
 - An electronic report may be downloaded into a dairy management program
 - No on-dairy handling of testing data
- Safer for embryos. With palpation methods, commonly 2 to 11 percent of embryos die.
- More accurate than palpation. Inaccurate pregnancy calculations lead to unintended abortions when abortion-causing drugs are administered to a pregnant animal.
- For recipients of an embryo transplant, we recommend collecting blood at 32 days of embryo age rather than 30 days.

Reduce detection error concerns with BioPRYN[®]. Embryos die when cows are treated with ovulation/heat synchronizing drugs. No test is better to assure non-pregnancy and relieve error and expense in treating pregnant cows.

Lab Fees and Supplies

Lab Fee Per Test

#BPLAB.....\$2.62ea

Blood Tubes - 5ml Red Top

#302411 - 100/pack.....\$18.00

Vacutainers Needle (20x1)

#216017 - 100/pack.....\$22.00

Vacutainer Holder

#5049.....\$0.29

Shipping Pack - Small

- For 40 or less blood samples
- Small Box w/ Postage
- Biohazard Ziplock Bag
- Instructions/forms
- Bubble wrap

#SSM.....\$8.95

Shipping Pack - Med.

- 41-200 blood samples
- Medium Box w/ Postage
- 2 Bags
- Instructions/forms
- Bubble wrap

#SMED.....\$15.95



Dairy & Livestock Solutions
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Frequently Asked Questions

Q. What is BioPRYN®?

- A. BioPRYN® is a blood pregnancy test for ruminants, and has specific appeal for the commercial U.S. dairy and beef industries because it delivers fast, accurate, safe and economical pregnancy diagnostic results. The technology works on all ruminants, including cattle, sheep, goats, bison, deer, elk and moose. A specific test using ELISA technology, which produces fast results and has been developed for use exclusively in cattle.

Q. How does BioPRYN® detect pregnancies?

- A. BioPRYN® evaluates the blood (more specifically, the serum or plasma) of ruminants for a protein called Pregnancy Specific Protein B (PSPB). PSPB is produced by the placenta, and therefore pregnant animals will have the protein in their blood. This makes the test more accurate than earlier attempts at pregnancy diagnosis that evaluated blood or milk for progesterone or other hormones that can occur in normally cycling animals. The test uses enzyme-linked immunosorbent assay (ELISA) technology for processing, which contributes to its low cost and fast turn-around.

Q. How early in a pregnancy can animals be tested with BioPRYN®?

- A. Heifers and cows can be tested at 30 days or later, after breeding. Lactating cows must also be 90 days after calving. Lactating cows have residual PSPB from the previous pregnancy until 90 days after calving. To eliminate the risk of a false-positive result, breeders are cautioned to take the sample at 30 days or more after breeding, and 90 days or more after calving. Thus if a cow is bred at 60 days after calving, it is appropriate to take the 30 days post-breeding sample, which is 90 days after calving. If she is bred at 55 days after calving, then the post-breeding sample should be taken at 35 days so that the cow is 90 days post-calving. Animals that are detected open can then be immediately returned to aggressive breeding programs using other reproductive technologies.

Q. What is the accuracy of BioPRYN®?

- A. BioPRYN® has been shown to have an overall accuracy rate of 97 percent. In fact, the test is 99 percent accurate in detecting open cows, with only 1 percent showing false-open (false-negative). Correct open detection is very important because giving prostaglandin to misdiagnosed pregnant cows will cause abortion. The false-pregnant (false-positive) rate for the test is approximately 5 percent. In practice, high-producing dairy cows tend to show slightly higher false-positive rates of 7 to 8 percent, especially during periods of extremely hot weather. It is presumed that a portion of this variance is due to higher early embryonic death, and not to test inaccuracy.

Q. How long does it take to receive the test results?

- A. The test takes approximately 36 hours to run. Samples are run on Tuesday, Wednesday, Thursday. Any samples that arrive after 4:00pm on Thursday is not set up until the following week.

Q. How should blood samples be prepared and shipped?

- A. Farm personnel need to draw blood samples from the tail or jugular vein, which is an easy-to-learn procedure. Blood samples of at least 2 ml per animal should be collected in individual Red Top vacuum tube (5ml preferably) and labeled with each animal's identification number and also the tube number (as seen on Submission Form). It is important to draw samples using individual, disposable needles, to avoid cross-contamination between animals. Tubes containing blood samples should not be opened and should be packed in a well-padded box to avoid breakage. They do NOT need to be packaged in ice. Samples may stay in transit for several days (two-weeks or more) without compromising the results of the test.

Q: The test came back Pregnant, but says to retest. How soon should I retest?

- A: It is recommended to wait approximately a week before retesting.