



Wyoming State Veterinary Laboratory

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Title Submission of samples for Trichomoniasis testing by PCR

Effective **August 4, 2020**

PCR is accepted as the only official test for Trichomoniasis by the Wyoming State Livestock Board (WSLB) and by many other states as well. Please plan your sample collection and shipping in advance as timing and shipping are critical and samples received that do not meet criteria outlined below may be rejected for testing.

For unofficial Trichomoniasis testing in cattle, the WSVL will still offer culture based tests. NOTE: Samples for unofficial testing should be submitted on the standard WSVL Accession Form. Samples submitted on WLSB Trichomoniasis Testing Forms will be treated as official test requests and will only be tested by PCR, subject to the sampling and sample handling requirements below.

Sampling

WSVL requires samples for PCR testing for Trichomoniasis to be submitted in TF Transit Tubes. These are available from Biomed Diagnostics (<http://biomeddiagnostics.com>) Additional vendors include MWI Veterinary Supply, Fisher Scientific and others. **In August of 2020 the Wyoming State Veterinarian approved the use of Diamond's media tubes supplied by WSVL for submitting T. foetus samples. Diamond's media tubes prepared by other laboratories/suppliers are also accepted.**

Sample Pooling

WLSB rules allow for pooling of up to 5 samples for trichomoniasis testing for samples from herds not under quarantine. Do not pool samples in the field prior to submission. Samples should be submitted individually and will be pooled at the WSVL if requested on the submission form (check box in upper right hand corner). Individual samples from positive pools will be automatically retested to identify specific infected animals. Samples to be included in a pool must be from animals owned by a single entity, samples from multiple owners will not be pooled.

Sample Processing, Shipping and Submission

Samples should be submitted on the WLSB Trichomoniasis Accession Form. Official individual animal identification is required. Please fill out the form completely and check either individual PCR or Pooled PCR as appropriate. Please check incubated and frozen or fresh as well.

For a valid official test follow one of the following submission procedures:

- **Fresh:** Ship the samples by overnight courier so that they arrive at the lab within 72 hours of collection. For this method ship samples at room temperature. Inclusion of room



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temperature cold packs will help maintain a stable temperature during transit. These samples will be incubated at the WSVL for 24 hours prior to testing by PCR. Be aware that samples received by the Parasitology Laboratory later than 72 hours after collection will be rejected for official Trichomoniasis testing. Thus, samples that arrive at the lab on the weekend are likely to be rejected so please plan your sampling and shipment accordingly if you use this method.

- **Incubated and frozen:** Incubate the samples at 37 degrees centigrade for 48 hours, then freeze the sample. Frozen samples may be held in the freezer at your clinic for up to 2 weeks prior to shipment if convenient. Frozen samples should be shipped with ice packs using an overnight courier. Samples received that have thawed during shipment will be rejected for official Trichomoniasis testing so please package accordingly.

Rejection of Samples

- Samples accompanied by incomplete or incorrectly filled out WLSB Trichomoniasis Accession Forms will not be tested.
- Samples not in TF Transit tubes or in expired tubes will be rejected.
- Leaking Transit Tubes will be rejected.
- Refrigerated, unfrozen Transit Tubes will be rejected. Refrigeration of any kind may kill the organism and increase the possibility for false negative results.
- Fresh samples received by the Parasitology Laboratory more than 72 hours from the time of collection will be rejected.
- Incubated and frozen samples will be rejected if they are thawed on arrival at WSVL. Rejected samples may be tested on approval by the Wyoming State Veterinarian's Office

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