

# APPENDIX I

## Molecular Diagnostics

### POOLED BVD PCR TESTING

Bovine Virus Diarrhea (BVD) PCR testing is available at the AHDC for the testing of blood and milk samples for the presence of the BVD virus. **Pooled BVD PCR** testing is also available, for which the laboratory creates pools from individual blood samples and tests the pool, rather than testing each sample individually. The cost of determining which animal(s) is positive when a pool tests positive is included in the test fee. Pooled testing should only be used to test otherwise apparently healthy animals for the detection of Persistently Infected (PI) animals.

Clinical suspects should be tested individually. For pooled testing, *individual samples must be submitted separately and identified*. Composite samples will be rejected. Ideally, on the submission form we would like samples to be grouped sequentially by age and specimen type. Be sure to request “**Pooled BVD PCR**” on the submission form. Samples from different owners will not be pooled.

**Effective October 1, 2008, POOLED BVD PCR testing will be performed, if appropriate, on multiple blood samples submitted for detection of BVDV Persistently Infected (PI) animals unless the INDIVIDUAL BVD PCR test is indicated.**

### Pooled BVD PCR testing for CATTLE

For cattle *under 61 days of age*, plasma or serum will *not* be tested – only EDTA whole blood will be accepted.

Ship EDTA whole blood samples overnight – do not freeze.

Up to 10 samples of EDTA whole blood will be pooled but only if *all* animals are under 61 days of age. Another option for BVDV PI testing for cattle under 61 days of age is an ear notch sample for an individual ACE test.

For cattle *61 days of age and older*, acceptable samples are EDTA whole blood, EDTA plasma, and serum/red top tubes. Up to 10 samples will be pooled but only if *all* animals are 61 days of age or older. It is possible to pool plasma samples with serum samples in special situations but please group sample types together on the submission form.

### Pooled BVD PCR testing for ALPACAS

Up to 5 samples from animals 61 days of age or older will be pooled.

Only 2 samples from animals under 61 days of age will be pooled.

Samples from animals in these two different age groups will not be pooled together.

For crias under 61 days of age, plasma and serum will *not* be tested – only EDTA whole blood will be accepted.

Ship EDTA whole blood samples overnight – do not freeze.

Please note that the AHDC will *not* pool ear notch samples or samples for Antigen Capture ELISA (ACE) tests.

### STAT Sample Testing

STAT sample processing is now available for individual blood, serum or plasma samples submitted for the following PCR testing with an additional fee of \$50/sample. Turnaround times are as listed below:

**For *Strep equi*, *Equine Herpes Virus 1* and *Bovine Virus Diarrhea* PCR tests:**

Samples arriving before 12pm will be reported out by 5pm the same day.

Samples arriving after 12pm will be reported by 1pm the next day.

**For *Ehrlichia risticii* and *Ehrlichia equi* PCR testing:**

Samples arriving before 12pm will be reported by 1pm the following day. Samples arriving after 12pm but before 3pm will be reported by 5pm the next day. Samples arriving after 3PM will be reported by 1PM the second day after arrival at AHDC.

**SERVICE AGREEMENT STATEMENT FOR PCR TESTING:**

This service is performed pursuant to an agreement with Roche Molecular Systems.