Testing Options for Detection of Individual Bovine Virus Diarrhea Persistently Infected (BVD PI) Animals

**CATTLE**

**Antigen Capture ELISA (ACE) on skin samples**
- Any age of cattle can be tested using fresh skin (not fixed)
- Ear notch samples will not be pooled
- **Cost**: lag time = 2-4 days

**Antigen Capture ELISA (ACE) on serum samples**
- Cattle must be 61 days of age or older
- Serum samples will not be pooled for the ACE test
- **Cost**: lag time = 2-4 days

**Individual PCR**
- Cattle less than 61 days of age – **EDTA whole blood required**
- Cattle 61 days and older – EDTA whole blood, plasma, or serum are accepted
- Write “Individual PCR” on the submission form
- **Cost** per sample; lag time = 3-5 days

**Pooled PCR**
- Cattle less than 61 days of age – **EDTA whole blood required**
- Cattle 61 days and older – EDTA whole blood, plasma, or serum are accepted
- Submit individually labeled samples; pooling is performed at the lab
- Animals less than 61 days of age will not be pooled with animals 61 days and older
- **Cost** per pool (see diagram below for pooling scheme); lag time = 3-5 days
- Samples from different owners will not be pooled.

**Virus Isolation**
- EDTA whole blood for any age but serum is acceptable for animals 61 days and older
- **Cost for EDTA whole blood or serum**: lag time = 10-14 days

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### Cattle Pooling Scheme is for POOLED PCR testing only

<table>
<thead>
<tr>
<th>Less than 61 days old</th>
<th>61 days and older</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDTA Whole Blood Required</strong></td>
<td><strong>EDTA Whole Blood</strong> Can Pool up to 10 animals</td>
</tr>
<tr>
<td>Can pool up to 10 animals</td>
<td>Or</td>
</tr>
<tr>
<td><strong>Cannot Pool</strong></td>
<td><strong>Plasma</strong> Can Pool up to 10 animals</td>
</tr>
<tr>
<td></td>
<td>Or</td>
</tr>
<tr>
<td><strong>Serum</strong> Can Pool up to 10 animals</td>
<td></td>
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</tbody>
</table>

It is possible to pool plasma samples with serum samples in special situations but please group sample types together on the submission form.

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* Please see either the Animal Health Diagnostic Center (AHDC) Test and Fee Manual or the AHDC website at [https://ahdc.vet.cornell.edu/](https://ahdc.vet.cornell.edu/) for additional information. Fees are subject to change. An **accessioning fee** will be added to each accession.