

## Bovine Abortion Diagnostic Panels & Tests

AAVLD accredited; USDA National Animal Health Laboratory Network, Level 1

The samples and tests listed below are suggested to detect common and high consequence causes of reproductive disease in the Pacific Northwest, and are not exhaustive. Please include clinical, herd, and management history, and suspected causes on the [Accession Form for Abortion Diagnosis](#) to alert about special diagnostic needs.

Please contact 509.335.9696 to consult with the on-duty Pathologist or Microbiologist.

For current prices (including out-of-state pricing), go to the [Web Test Search Tool](#) and type "abortion" in the query field. Submissions are charged a \$10 accession fee per case.

**NOTE: Pathological findings may lead the pathologist to cancel (or substitute) any test in the panel.**

Bovine Abortion Tissue Panel:				
Samples	Preservation	Test	Agents Detected	WA Fee
<b>entire fetus &amp; placenta</b>	fresh chilled	<b>Necropsy (NA)</b>	Rare presumptive causes may be detected grossly.	\$50 per fetus
<b>fixed tissue:</b> Minimum: <b>placenta*</b> , liver, spleen, thymus, thyroid, kidney, lung, heart, lymph node, tongue, diaphragm, brain. Affected skin if suspect fungal causes.	fixed in 10% buffered neutral formalin at 10:1 (formalin:tissue) ratio. Max. 1 cm sample thickness.	<b>Histopathology (H)</b>	Presumptive causes may be detected histologically (e.g. <i>IBR</i> , fungi, etc.)	\$140 per fetus
<b>fresh (unfixed) tissue:</b> <input type="checkbox"/> pooled (liver, kidney, lung, & spleen)	fresh chilled	<b>Aerobic culture (B)</b>	Bacterial causes (does NOT include <i>Mycoplasma</i> or <i>Ureaplasma</i> )	
		<b>PCR (MD)</b>	<i>BVDV</i>	
<input type="checkbox"/> <b>fetal stomach content</b>	fresh (unfixed) chilled	<b>Aerobic and <i>Campylobacter</i> culture (B)</b>	bacterial placentitis	
<input type="checkbox"/> <b>fresh placenta*</b>	fresh (unfixed) chilled	<b>Bacteriology (B)</b>	<i>Campylobacter</i>	
<input type="checkbox"/> <b>fresh liver</b>	fresh chilled	<b>Selenium (T)</b>	Selenium	
Total price: necropsy & abortion tissue panel plus \$10.00 accession fee				\$200 per fetus

**\*Many causes for abortion, including reportable diseases, require evaluation of the placenta.**

Bovine Abortion Serologic Profile:				
Sample	Preservation	Tests Included	Agents Detected	WA Fee
<b>blood clotted or blood serum separator tube</b> from dam acute & convalescent preferred	fresh chilled	<b>Serology (S)</b>	<i>Neospora</i> , <i>IBR</i> , <i>Brucella abortus</i> , <i>BVDV</i> , <i>Leptospira</i> (6 serovars)	\$49.50 per sample

Additional tests may be warranted based upon the findings of the abortion panel. The Pathologist will contact the submitter to discuss any recommended additional tests.

For more details and current prices (including out-of-state pricing), go to the [Web Test Search Tool](#) and type the Test Name listed below in the query field.

<b>Additional Tests Available: additional fees will apply</b>			
<b>Samples</b>	<b>Preservation</b>	<b>Test Name</b>	<b>Agents Detected</b>
unfixed fetal stomach contents	fresh chilled	<b>Mycoplasma Culture (B)</b>	<i>Mycoplasma</i> spp.
unfixed fetal stomach contents	fresh chilled	<b>Fungal Culture (B)</b>	Fungi
pooled unfixed fetal liver, kidney, lung, & spleen	fresh chilled	<b>Fungal Culture (B)</b>	Fungi
		<b>Virus Isolation (V)</b>	e.g. <i>herpesviruses</i>
unfixed fetal liver OR kidney	fresh chilled	<b>Trace Mineral Screen (T)</b>	arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, selenium, zinc
blood clotted or blood serum separator tube from dam	fresh chilled	<b>Trace Element Screen (T)</b>	calcium, copper, iron, magnesium, phosphorus, zinc
must be recommended by pathologist pending pathology exam	fixed or fresh	<b>PCR</b>	<i>Neospora caninum</i> , <i>Coxiella burnetii</i> *, <i>IBR</i> , <i>Ureaplasma</i> , <i>Bluetongue/Epizootic Hemorrhagic Disease Virus</i> , <i>Leptospira</i>
fetal thoracic fluid, must be recommended by pathologist pending pathology exam	fresh chilled fetal thoracic fluid	Sendout (Hold)	pine needle abortion (isocupressic acid)
must be recommended by pathologist pending pathology exam	fixed tissues	<b>Immunohistochemistry</b>	<i>IBR</i> , <i>BVDV</i> , <i>Listeria</i> , <i>Coxiella burnetii</i> , <i>Leptospira</i>

\*Use of this assay must be pre-approved by the Director.