

Small Ruminant 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.

Small Ruminant Abortion <u>Tissue</u> Panel:				
Samples	Preservation	Test	Agents Detected	WA Fee
entire fetus & placenta	fresh chilled	Necropsy (NA)	Rare presumptive causes may be detected grossly.	\$50 per fetus
fixed tissue[#]: Minimum: placenta* , liver, spleen, thymus, 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.	Histopathology (H)	Presumptive causes may be detected histologically. (e.g. <i>Coxiella</i> , <i>Chlamydia</i> , fungi, <i>Listeria</i> , <i>Campylobacter</i>)	\$140 per fetus
fresh (unfixed) tissue: pooled (liver, kidney, lung, & spleen)	fresh (unfixed) chilled	Aerobic culture (B)	Bacterial causes (does NOT include <i>Mycoplasma</i> or <i>Ureaplasma</i>)	
		PCR (MD)	<i>BVDV</i>	
fetal stomach content	fresh (unfixed) chilled	Aerobic & <i>Campylobacter</i> culture (B)	bacterial placentitis	
fresh placenta*	fresh (unfixed) chilled	Immunodiagnosics, Bacteriology (B, V)	<i>Campylobacter</i> , <i>Chlamydia</i> spp.	
fresh liver	fresh (unfixed) chilled	Selenium (T)	Selenium	
Total price: necropsy & abortion tissue panel plus accession fee				\$200 per fetus

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

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.

Small Ruminant Abortion Serologic Profile: additional fees will apply				
Sample	Preservation	Tests Included	Agents Detected	WA Fee
blood clotted or blood serum separator tube from dam acute & convalescent preferred	fresh chilled	Serology (S) for <u>goat</u> abortion	<i>Toxoplasma</i> , <i>Coxiella burnetii</i> , <i>Brucella abortus</i> , <i>BVDV</i>	\$32 per sample
blood clotted or blood serum separator tube from dam acute & convalescent preferred	fresh chilled	Serology (S) for <u>sheep</u> abortion	<i>Toxoplasma</i> , <i>Coxiella burnetii</i> , <i>Brucella ovis</i> , <i>BVDV</i>	\$32 per sample

Additional Tests Available: additional fees will apply			
Samples	Preservation	Test	Agents Detected
unfixed fetal stomach contents	fresh chilled	Mycoplasma Culture (B)	<i>Mycoplasma</i> spp.
unfixed fetal stomach contents	fresh chilled	Fungal Culture (B)	Fungi
pooled unfixed fetal liver, kidney, lung, & spleen	fresh chilled	Fungal Culture (B)	Fungi
		Virus Isolation (V)	e.g. <i>herpesviruses</i>
unfixed fetal liver OR kidney	fresh chilled	Trace Mineral Screen (T)	arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, selenium, zinc
blood clotted or blood serum separator tube from dam	fresh chilled	Trace Element Screen (T)	calcium, copper, iron, magnesium, phosphorus, zinc
must be recommended by pathologist pending histopathology	fixed or fresh tissues	PCR (MD)	<i>Coxiella burnetii</i> *, <i>Chlamydia</i> spp., <i>Toxoplasma gondii</i> , <i>Leptospira</i>
must be recommended by pathologist pending histopathology	fixed tissues	Immunohistochemistry (IHC)	<i>Coxiella burnetii</i> , <i>IBR</i> , <i>BVDV</i> , <i>Listeria</i> , <i>Leptospira</i> , <i>IBR</i>

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