The following diagnostic plans have been developed primarily as an educational tool to assist the veterinarian in designing a complete, although not exhaustive, diagnostic strategy. To encourage veterinarians to select only the tests that are deemed clinically appropriate in each situation, the price of the diagnostic plan is not discounted from the sum of the individual test costs. Superscript numbers match the individual tests to the sample needed. For the test groupings labeled as panels, there may be a discounted price versus the costs of the individual tests. Diagnostic plans and panels can be requested by writing the complete name as the test request. If appropriate samples are included all tests will be performed.

### OVINE PANELS

* indicates test performed at a referral laboratory

#### DIAGNOSTIC PLAN/PANEL

<table>
<thead>
<tr>
<th>TESTS PERFORMED</th>
<th>PRICES</th>
<th>SAMPLES NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coagulation Panel, Large Animal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>aPTT; PT; Fibrinogen (Clauss method)</td>
<td>$40.50</td>
<td>2 ml separated citrate plasma in plastic or siliconized glass tube (blue top and then separated and transferred). <strong>SHIP CHILLED.</strong></td>
</tr>
</tbody>
</table>

#### Dermatology Diagnostic Plans

<table>
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<tr>
<th>TESTS PERFORMED</th>
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<tbody>
<tr>
<td><strong>Deep lesion</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aerobic bacterial culture¹ (1 sensitivity included); Biopsy for parasite exam²; Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵</td>
<td>Deep lesion: $208.00</td>
<td>Deep lesion: (2) fresh skin biopsies¹,²,³,⁴ in plain RTT with 0.5 ml sterile saline to keep moist (not wet) +/- swab¹,³ from deep in tissue placed in aerobic transport media (Amies with charcoal), multiple formalin fixed skin biopsies⁵. <strong>SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</strong></td>
</tr>
<tr>
<td>Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵; Skin scraping for ectoparasite identification⁶; Cytology⁷</td>
<td>Superficial lesion: $188.00</td>
<td>Superficial lesion: (1) hair and skin scraping³,⁴ for fungal culture and gram stain sent in a sealable paper envelope, (1) skin scraping⁶ for ectoparasite identification in an escape proof, non-porous container, (2) impression smears/skin scrapings/fluid aspirates⁷ for cytology placed on glass slides and air dried, and multiple formalin fixed skin biopsies⁵. No aerobic culture is included in the superficial plan. <strong>SHIP AT ROOM TEMPERATURE AND PROTECT FROM TEMPERATURE EXTREMES.</strong></td>
</tr>
</tbody>
</table>

Diagnostic Plans/ Panels can be ordered by writing the complete plan/panel name. The tests are also available individually. Numbers in parentheses are quantity of tests. Superscript numbers match necessary samples to specific test. Each accession will be charged the standard AHDC accession fee. Prices may change without notice.  

* indicates test performed at a referral laboratory

LTT – Lavender Top Tube

RTT – Red Top Tube

OVINE PANELS

1/11/2016 Version 1
### Diagnostic Plans/Panels

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<tr>
<td><strong>Fever of Unknown Origin</strong></td>
<td>(3) Blood cultures, aerobic/fungal¹ (1 sensitivity included); (3) Blood cultures, anaerobic²; Fibrinogen (heat-precipitated)³; Hemogram, routine (CBC)⁴ (examination for blood parasites included); (2) Virus isolations⁵ (nasal, whole blood)</td>
<td>$301.50</td>
<td>(3) Inoculated aerobic/fungal blood culture bottles¹, (3) inoculated anaerobic blood culture bottles², nasal swab⁵ in 0.5 ml saline to keep moist (not wet), (2) tubes EDTA whole blood¹,⁴,⁵ (LTT), and (2) air dried blood smears⁴. <strong>SHIP CHILLED EXCEPT FOR SLIDES AND BLOOD CULTURE BOTTLES, WHICH ARE SHIPPED AT ROOM TEMPERATURE.</strong> See <a href="#">Blood Culture Technique</a> for more information. To order blood culture bottles go to <a href="#">shipping services</a> or call 607.253.3935. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology. This diagnostic plan is designed to detect a broad spectrum of systemic bacterial, viral, and some blood parasite causes of acute fever of unknown origin, as well as certain inflammatory changes which may assist in determining the underlying problems. Viral causes of illness are best detected acutely and most are unlikely to be detected in a patient with a chronic fever of unknown origin. This plan is intended to be used as an adjunct to targeted, disease-specific testing appropriate to the species, clinical history and geographic location or conditions. See <a href="#">Small Animal Internal Medicine, 5th Edition, 2014, Nelson RW and Couto CG; Chapter 88: Fever of Unknown Origin</a>, pages 1279-1282 for other ideas of testing.</td>
</tr>
<tr>
<td><strong>Large Animal Basic Workup</strong></td>
<td>Fibrinogen (heat-precipitated)¹; Hemogram, routine (CBC)²; Large animal chemistry panel³</td>
<td>$100.50</td>
<td>EDTA whole blood¹,² (LTT), (2) air dried blood smears², and serum³ (separated) or heparinized plasma³ (separated from a green top tube). <strong>SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE.</strong></td>
</tr>
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<tr>
<td>Large Animal Liver Panel</td>
<td>AST; SDH; GGT; GLDH; Total/Direct/Indirect Bilirubin; Total Protein; Albumin; Globulin; A/G Ratio; CK; Triglycerides</td>
<td>$25.00</td>
<td>Serum (separated) or heparinized plasma (separated from green top tube). SHIP CHILLED</td>
</tr>
<tr>
<td>Large Animal Renal Panel</td>
<td>Na; K; Cl; Bicarb; Anion gap; Urea; Creatinine; Albumin; Ca; P</td>
<td>$26.00</td>
<td>Serum (separated) or heparinized plasma (separated from green top tube). SHIP CHILLED</td>
</tr>
<tr>
<td>Ovine Abortion Fetal Tissue Diagnostic Plan</td>
<td>(3) Aerobic bacterial cultures(^1); Listeria included (1 sensitivity included); Bovine Virus Diarrhea Virus (BVDV) FA(^2); Bovine Virus Diarrhea Virus (BVDV) SN, Type 1(^3) and Type 2(^4); Campylobacter fetus (Vibrio) culture(^5); (2) Campylobacter fetus (Vibrio) FAs(^6); Chlamyphila FA(^7); Chlamyphila PCR(^8); Histopathology(^9); Field Necropsy Surcharge(^9); (2) Leptospira PCRs(^10); Toxoplasma FA(^11); Toxoplasma gondii IgG ELISA(^12); Virus isolation(^13)</td>
<td>$583.25 per fetus</td>
<td>Fresh tissue(^{5,2,5,6,7,8,10,11,13}): lung, placenta including cotyledons, abomasal contents, kidney, liver, heart, adrenal, skin, heart blood(^{4,12}) in sterile red top tube AND Formalin fixed tissue(^8): placenta, liver, lung, brain, adrenal, heart, thymus, small intestine, kidney, fetal skin. SHIP FRESH TISSUE CHILLED AND PROTECT FIXED TISSUE FROM FREEZING. Kit is available. See Ruminant Abortion Kit for more complete instructions. If full necropsy desired, see Necropsy Testing.</td>
</tr>
</tbody>
</table>

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**DIAGNOSTIC PLAN/PANEL** | **TESTS PERFORMED** | **PRICES** | **SAMPLES NEEDED**
---|---|---|---
*Ovine Abortion Serology Panel + Selenium* | Bovine Virus Diarrhea Virus (BVDV) SN, *Type 1*¹ and *Type 2*²; Chlamydophila CF³; Leptospira MAT, 5 standard serovar⁴; Selenium, (whole blood)⁵; Toxoplasma gondii IgG ELISA⁶ | $101.00 single | Maternal serum¹,²,³,⁴,⁶ (separated) and maternal EDTA whole blood⁸ (LTT) **SHIP CHILLED.**
| *If history indicates may also want to consider Brucella ovis ELISA*¹ ($12.00 + referral fee) which is performed on serum. | $174.00 paired (1 selenium) | **Testing may qualify for N.Y State contract case subsidy.**

*Ovine Diarrhea Diagnostic Plan* | Fecal quantitative¹⁷; Johne's Commercial ELISA²; Salmonella culture³ (no sensitivity included) | $51.00 | Fresh Feces¹,³ in leak-proof container (20 g) and serum (separated)². **One fecal sample**¹⁷ (1 g, fill to line on container but do not overfill) can be put in ParaPak® transport media to assist with Salmonella recovery. **ParaPak® transport media is available.** **SHIP CHILLED, EXCEPT FOR PARAPAK® WHICH SHOULD BE KEPT AT ROOM TEMPERATURE.**
| Johne's Culture, Non-Bovine ($40.25) on fresh feces may also be warranted. The lag time for culture is 12-16 weeks although positive samples may be shorter. In neonatal lambs an Aerobic bacterial culture ($38) and a Rotavirus Latex Antigen Detection, Group A ($25) on feces should also be considered. | **Testing may qualify for N.Y State contract case subsidy.**

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## Diagnostic Plans/Panels

### Ovine Neurologic Diagnostic Plan

**Tests Performed**
- Aerobic bacterial culture\(^1\);
- Histopathology\(^2\);
- Lead, blood or Lead, tissue\(^3\);
- Listeria culture\(^4\)

**Prices**
- $224.00

**Samples Needed**
- CSF\(^1\) sample taken using sterile technique and placed in sterile red top tube +/- (1) swab\(^1\) inoculated with CSF, OR (1) swab\(^1\) of meninges prior to contamination and placed in aerobic transport media (Amies with charcoal), fresh brain (preferably brainstem)\(^4\) placed in sterile container, EDTA or Heparin whole blood\(^3\) (LTT or GTT) or fresh liver\(^3\) in sterile container, full set of fixed tissues\(^2\) placed in formalin, including multiple sections of brain and spinal cord. SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING. PLEASE INDICATE IF RABIES TESTING IS PENDING. See [Tissues for Rabies Diagnosis](#) for photos of brain samples needed for rabies testing.

**Please Strongly Consider Rabies Testing at Your State Health Department**
- Aerobic bacterial culture
- Histopathology
- Lead, blood or Lead, tissue
- Listeria culture

May also want to consider Cerebrospinal Fluid Cytology ($54) which requires CSF in EDTA tube (LTT) and (2) air dried slides of CSF. Protect slides from formalin exposure.

If whole head is submitted a rabies brain extraction fee will be applied ($50). Please submit completed NYS rabies specimen history form and write out clear instructions on what additional diagnostic tests should be performed.

**Small Ruminant/Camelid Pinkeye Diagnostic Plan**

**Tests Performed**
- Aerobic bacterial culture\(^1\);
- Chlamydophila PCR\(^2\);
- Mycoplasma culture\(^3\)

**Prices**
- $101.75

**Samples Needed**
- Conjunctival swab\(^1,3\) in aerobic transport media (Amies w/out charcoal), conjunctival swab\(^2\) in sterile tube with 0.5 ml saline to keep moist (not wet). SHIP CHILLED.

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Diagnostic Plans/Panels can be ordered by writing the complete plan/panel name. The tests are also available individually. Numbers in parentheses are quantity of tests. Superscript numbers match necessary samples to specific test. Each accession will be charged the standard AHDC accession fee. Prices may change without notice. * indicates test performed at a referral laboratory.

LTT – Lavender Top Tube
RTT – Red Top Tube
OVINE PANELS

1/11/2016 Version 1
**Small Ruminant Respiratory (Acute) Diagnostic Plan**

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<tr>
<td><em>Aerobic bacterial culture</em>&lt;sup&gt;1&lt;/sup&gt; (1 sensitivity included); <em>Bovine Respiratory Syncytial Virus (BRSV) FA</em>&lt;sup&gt;2&lt;/sup&gt;; <em>Chlamydophila PCR</em>&lt;sup&gt;3&lt;/sup&gt;; <em>Cytology</em>&lt;sup&gt;4&lt;/sup&gt;; <em>Fibrinogen</em> (heat-precipitated)&lt;sup&gt;5&lt;/sup&gt;; <em>Hemogram, routine (CBC)</em>&lt;sup&gt;6&lt;/sup&gt;; <em>Histopathology</em>&lt;sup&gt;7&lt;/sup&gt;; <em>Field Necropsy Surcharge</em>&lt;sup&gt;7&lt;/sup&gt;; <em>Mycoplasma Culture</em>&lt;sup&gt;8&lt;/sup&gt;; <em>Virus Isolation</em>&lt;sup&gt;9&lt;/sup&gt;</td>
<td>$300.75 (ante mortem samples)</td>
<td>Ante mortem samples: <em>transtracheal wash</em> (TTW)(preferred sample) or bronchial alveolar lavage (BAL) fluid in <em>RTT</em>&lt;sup&gt;1,2,3,8,9&lt;/sup&gt; (alternatively can use viral transport media), and in EDTA tube&lt;sup&gt;4&lt;/sup&gt;(LTT), (2) <em>air dried slides</em>&lt;sup&gt;4&lt;/sup&gt; of fluid, (1) <em>swab inoculated with sample</em>&lt;sup&gt;1,8&lt;/sup&gt; placed in aerobic transport media (Amies w/o charcoal), EDTA whole blood&lt;sup&gt;6,6&lt;/sup&gt; (LTT), and (2) <em>air dried blood smears</em>&lt;sup&gt;6&lt;/sup&gt;. <strong>SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE AT ROOM TEMPERATURE.</strong></td>
</tr>
<tr>
<td></td>
<td>$326.75 (full set of necropsy samples)</td>
<td>Testing may qualify for <a href="https://www.health.ny.gov/docs/ahdc/00ahdc01.htm">N.Y State contract</a> case subsidy.</td>
</tr>
</tbody>
</table>

Testing for evidence of lungworms, *quantitative fecal* ($25) may be warranted depending on season. Also *selenium* on an EDTA whole blood sample ($28) or liver ($55) and *vitamin E* ($30) on a *serum* sample (separated) may be appropriate in some situations. Limited serology testing is available but *Ovine Progressive Pneumonia (OPPV) AGID* ($8.50) on a single *serum* sample in chronic disease or paired acute and convalescent *serum* samples for *BRSV SN* ($29 paired) in acute disease episodes may be warranted.

See [Transtracheal Wash Procedure](https://www.health.ny.gov/docs/ahdc/00ahdc01.htm) for more information. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology. [Nasal or pharyngeal swabs]<sup>3,9</sup> are only appropriate for virus isolation and PCR. Submit in viral transport media or a RTT with a 0.5 ml sterile saline for virus isolation and PCR. **SHIP CHILLED.**

**Necropsy samples:** Section of fresh lung<sup>1,2,3,8,9</sup> +/- 1 *swab* inoculated with sample<sup>1,8</sup> and placed in aerobic transport media (Amies w/o charcoal) and full set of tissues<sup>7</sup> placed in formalin. **SHIP FRESH TISSUE CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.**