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.

### Diagnostic Plans/Panels

<table>
<thead>
<tr>
<th>PLAN/ PANEL</th>
<th>TESTS PERFORMED</th>
<th>PRICES</th>
<th>SAMPLES NEEDED</th>
</tr>
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<tbody>
<tr>
<td><strong>Caprine Abortion Fetal Tissue</strong></td>
<td><strong>Diagnostic Plan</strong>: (3) Aerobic bacterial cultures(^1); Bovine Virus Diarrhea Virus (BVDV) FA(^2); Bovine Virus Diarrhea Virus (BVDV) SN, Type 1(^3) and Type 2(^4); Campylobacter jejuni culture(^5); (2) Campylobacter fetus (Vibrio) FAs(^6); Chlamyphilia FA(^7); Chlamyphilia PCR(^8); Coxiella burnettii PCR(^9); Histopathology(^10), (2) Leptospira PCRs(^11); Toxoplasma FA(^12); Toxoplasma gondii IgG ELISA(^13); Virus isolation(^14)</td>
<td>$668.50</td>
<td>Fresh tissue(^1,2,5,6,7,8,9,11,12,14): lung, placenta including cotyledons, abomasal contents, kidney, liver, heart, adrenal, skin, heart blood(^13,14) in sterile red top tube AND Formalin fixed tissue(^10): 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>
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<td>May also want to consider adding Selenium to fetal liver especially if stillbirths and/or neonatal deaths are involved.</td>
</tr>
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\(^*\) indicates test performed at a referral laboratory
### Diagnostic Plans/Panels

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<tr>
<th>DIAGNOSTIC PLAN/panel</th>
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<tr>
<td><strong>Caprine Abortion Serology Panel + Selenium</strong></td>
<td><strong>Bovine Virus Diarrhea Virus (BVDV) SN, Type 1⁴ and Type 2⁵; Brucella Card Agglutination⁷; Caprine Herpesvirus SN⁴; Chlamydia phila CF⁵; Coxiella burnettii ELISA⁶ Leptospira MAT, 5 standard serovar⁷; Selenium, whole blood⁸; Toxoplasma gondii IgG ELISA⁹</strong></td>
<td>$140.50 single</td>
<td>Maternal serum¹,₂,³,⁴,⁵,⁶,⁷,⁹ (separated) and maternal EDTA whole blood⁸ (LTT). SHIP CHILLED. Testing may qualify for N.Y State contract case subsidy.</td>
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<td>$236.50 paired (1 selenium)</td>
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<td>When acute and convalescent samples are/will be collected, for most serology assays they should always be tested in parallel, and paired results interpreted. If acute samples are submitted alone please indicated if all tests should be performed. If second, convalescent samples are later submitted, tests on both samples will be run in parallel and fees for both samples will be charged. To avoid testing acute samples twice, hold and submit with convalescent samples. If convalescent samples will not be collected, or when infectious abortion is strongly suspected due to history, immediate testing of acute sample may be warranted.</td>
</tr>
<tr>
<td><strong>Caprine Diarrhea Diagnostic Plan</strong></td>
<td><strong>Fecal quantitative¹; Johne’s AGID²; Salmonella culture³ (no sensitivity included)</strong> Johne’s Culture, Non-Bovine on fresh feces may also be warranted. The lag time for culture is 12-16 weeks although positive samples may be shorter. In neonatal kids an Aerobic bacterial culture and a Rotavirus Latex Antigen Detection, Group A on feces should also be considered.</td>
<td><strong>$54.50</strong></td>
<td><strong>Fresh Feces¹,³ in leak-proof container (20 g) and serum (separated)². One fecal sample³ (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.</strong></td>
</tr>
</tbody>
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LTT – Lavender Top Tube
RTT – Red Top Tube
CAPRINE PANELS

VSS-WEB-018-V05

2/26/2018 Version 1
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<tr>
<td>Caprine Neurologic</td>
<td>* AEROBIC BACTERIAL CULTURE*&lt;sup&gt;1&lt;/sup&gt;; <em>HISTOPATHOLOGY</em>&lt;sup&gt;2&lt;/sup&gt;; <em>LEAD, BLOOD</em>&lt;sup&gt;3&lt;/sup&gt; or <em>LEAD, TISSUE</em>&lt;sup&gt;3&lt;/sup&gt;; <em>LISTERIA CULTURE</em>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>$219.50 - $229.50</td>
<td>CSF&lt;sup&gt;1&lt;/sup&gt; sample taken using sterile technique and placed in sterile red top tube +/- (1) swab&lt;sup&gt;1&lt;/sup&gt; inoculated with CSF, OR (1) swab&lt;sup&gt;1&lt;/sup&gt; of meninges prior to contamination and placed in aerobic transport media (Amies with charcoal), fresh brain (preferably brainstem)&lt;sup&gt;4&lt;/sup&gt; placed in sterile container, EDTA or Heparin whole blood&lt;sup&gt;3&lt;/sup&gt; (LTT or GTT) or fresh liver&lt;sup&gt;3&lt;/sup&gt; in sterile container, full set of fixed tissues&lt;sup&gt;2&lt;/sup&gt; placed in formalin, including multiple sections of brain and spinal cord. <strong>SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</strong> PLEASE INDICATE IF RABIES TESTING IS PENDING. See Tissues for Rabies Diagnosis for photos of brain samples needed for rabies testing.</td>
</tr>
<tr>
<td>PLEASE STRONGLY CONSIDER RABIES TESTING AT YOUR STATE HEALTH DEPARTMENT</td>
<td>May also want to consider <em>CEREBROSPINAL FLUID CYTOMETRY</em> 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 <em>rabies brain extraction fee</em> will be applied. Please submit completed NYS rabies specimen history form and write out clear instructions on what additional diagnostic tests should be performed. Testing may qualify for N.Y State contract case subsidy.</td>
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<tr>
<td>Coagulation Panel, Large Animal</td>
<td>aPTT; PT; Fibrinogen (Clauss method)</td>
<td>$42.50</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>
<tr>
<td>Dermatology Diagnostic Plans</td>
<td><em>AEROBIC BACTERIAL CULTURE</em>&lt;sup&gt;1&lt;/sup&gt; (1 sensitivity included); <em>BIOLOGY FOR PARASITE EXAM</em>&lt;sup&gt;2&lt;/sup&gt;; <em>FUNGAL CULTURE</em>&lt;sup&gt;3&lt;/sup&gt;; <em>GRAM STAIN</em>&lt;sup&gt;1&lt;/sup&gt;; <em>HISTOPATHOLOGY (BIOLOGY)</em>&lt;sup&gt;5&lt;/sup&gt;</td>
<td>Deep lesion: $233.00</td>
<td>Deep lesion: (2) fresh skin biopsies&lt;sup&gt;1,2,3,4&lt;/sup&gt; in plain RTT with 0.5 ml sterile saline to keep moist (not wet) +/- swab&lt;sup&gt;1,3&lt;/sup&gt; from deep in tissue placed in aerobic transport media (Amies with charcoal), multiple formalin fixed skin biopsies&lt;sup&gt;5&lt;/sup&gt;. <strong>SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</strong></td>
</tr>
<tr>
<td>Deep lesion</td>
<td></td>
<td>Testing may</td>
<td></td>
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<tr>
<td>Superficial lesion</td>
<td><em>FUNGAL CULTURE</em>&lt;sup&gt;3&lt;/sup&gt;; <em>GRAM STAIN</em>&lt;sup&gt;4&lt;/sup&gt;; <em>HISTOPATHOLOGY (BIOLOGY)</em>&lt;sup&gt;5&lt;/sup&gt;; <em>SKIN SCRAPING FOR ECTOPARASITE IDENTIFICATION</em>&lt;sup&gt;6&lt;/sup&gt;; <em>CYTOLYSIS</em>&lt;sup&gt;7&lt;/sup&gt;</td>
<td>Superficial lesion: $213.00</td>
<td>Superficial lesion: (1) hair and skin scraping&lt;sup&gt;3,4&lt;/sup&gt; for fungal culture and gram stain sent in a sealable paper envelope, (1) skin scraping&lt;sup&gt;6&lt;/sup&gt; for ectoparasite identification in an escape proof, non-porous container, (2) impression smears/skin scrapings/fluid aspirates&lt;sup&gt;7&lt;/sup&gt; for cytology placed on glass slides and air dried, and multiple formalin fixed skin biopsies&lt;sup&gt;5&lt;/sup&gt;. No aerobic culture is included in the superficial plan. <strong>SHIP AT ROOM TEMPERATURE AND PROTECT FROM TEMPERATURE EXTREMES.</strong></td>
</tr>
<tr>
<td>All skin biopsy submissions should be accompanied by a Dermatohistopathology Submission Form. For additional guidance refer to Dermatopathology Sampling Guide.</td>
<td></td>
<td>Testing may</td>
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<td><strong>Fever of Unknown Origin Diagnostic Plan</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>$335.00</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 blood³,⁴,⁵ (LTT), and (2) air dried blood smears⁴. SHIP CHILLED EXCEPT FOR SLIDES AND BLOOD CULTURE BOTTLES, WHICH ARE SHIPPED AT ROOM TEMPERATURE. See Blood Culture Technique for more information. To order blood culture bottles go to shipping services or call 607.253.3935. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology.</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>$105.00</td>
<td>EDTA whole blood¹,² (LTT), (2) air dried blood smears², and serum³ (separated) or heparinized plasma³ (separated from a green top tube). SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE.</td>
</tr>
<tr>
<td><strong>Large Animal Liver Panel</strong></td>
<td>AST; SDH; GGT; 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 a green top tube). SHIP CHILLED</td>
</tr>
<tr>
<td><strong>Large Animal Renal Panel</strong></td>
<td>Na; K; Cl; Bicarb; Anion gap; Urea; Creatinine; Albumin; Ca; P</td>
<td>$28.00</td>
<td>Serum (separated) or heparinized plasma (separated from a green top tube). SHIP CHILLED</td>
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### Diagnostic Plans/Panels

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<td><strong>Small Ruminant/Camelid Pinkeye Diagnostic Plan</strong></td>
<td>Aerobic bacterial culture&lt;sup&gt;1&lt;/sup&gt;; Chlamydophila PCR&lt;sup&gt;2&lt;/sup&gt;; Mycoplasma culture&lt;sup&gt;3&lt;/sup&gt;</td>
<td>$103.75</td>
<td>Conjunctival swab&lt;sup&gt;1,3&lt;/sup&gt; in aerobic transport media (Amies w/out charcoal), conjunctival swab&lt;sup&gt;1&lt;/sup&gt; in sterile tube with 0.5 ml saline to keep moist (not wet). SHIP CHILLED.</td>
</tr>
<tr>
<td><strong>Small Ruminant Respiratory (Acute) Diagnostic Plan</strong></td>
<td>Aerobic bacterial culture&lt;sup&gt;1&lt;/sup&gt; (1 sensitivity included); Bovine Respiratory Syncytial Virus (BRSV) FA&lt;sup&gt;2&lt;/sup&gt;; Chlamydophila PCR&lt;sup&gt;3&lt;/sup&gt;; Cytology&lt;sup&gt;4&lt;/sup&gt;; Fibrinogen (heat-precipitated)&lt;sup&gt;5&lt;/sup&gt;; Hemogram, routine (CBC)&lt;sup&gt;6&lt;/sup&gt;; Histopathology&lt;sup&gt;7&lt;/sup&gt;; Field Necropsy Surcharge&lt;sup&gt;7&lt;/sup&gt;; Mycoplasma Culture&lt;sup&gt;8&lt;/sup&gt;; Virus Isolation&lt;sup&gt;9&lt;/sup&gt;</td>
<td>$329.75 (ante mortem samples) $349.25 (full set of necropsy samples)</td>
<td>Testing may qualify for N.Y State contract case subsidy. Ante mortem samples: transtracheal wash (TTW)(preferred sample) or bronchial alveolar lavage (BAL) fluid in RTT&lt;sup&gt;1,2,3,8,9&lt;/sup&gt; (alternatively can use viral transport media), and in EDTA tube&lt;sup&gt;6&lt;/sup&gt;(LTT), (2) air dried slides&lt;sup&gt;4&lt;/sup&gt; of fluid, (1) swab inoculated with sample&lt;sup&gt;1,8&lt;/sup&gt; placed in aerobic transport media (Amies w/o charcoal), EDTA whole blood&lt;sup&gt;6&lt;/sup&gt; (LTT), and (2) air dried blood smears&lt;sup&gt;6&lt;/sup&gt;. SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE. Testing for evidence of lungworms, quantitative fecal may be warranted depending on season. Also selenium on an EDTA whole blood sample or liver (Selenium, tissue) and vitamin E on a serum sample (separated) may be appropriate in some situations. Limited serology testing is available but paired acute and convalescent serum samples for BRSV SN&lt;sup&gt;1&lt;/sup&gt; may be warranted in acute disease episodes. Necropsy samples: Section of fresh lung&lt;sup&gt;1,2,3,8,9&lt;/sup&gt; +/- (1) swab inoculated with sample&lt;sup&gt;1,7&lt;/sup&gt; and placed in aerobic transport media (Amies w/o charcoal) and full set of tissues&lt;sup&gt;7&lt;/sup&gt; placed in formalin. SHIP FRESH TISSUE AND SWAB CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</td>
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