

OVINE DIAGNOSTIC PLANS/PANELS



Cornell University
Animal Health Diagnostic Center

Post Office: P.O. Box 5786
607-253-3900 (telephone)
607-253-3935 (telephone, shipping)
607-253-3907 (fax)
diagcenter@cornell.edu
<http://ahdc.vet.cornell.edu/>

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 PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
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| <u>Coagulation Panel, Large Animal</u> | aPTT ; PT ; Fibrinogen (Clauss method) | \$38.50 | 2 ml separated citrate plasma in plastic or siliconized glass tube (blue top and then separated and transferred). SHIP CHILLED. |
| Dermatology Diagnostic Plans | Deep lesion | <p>Aerobic bacterial culture¹ (1 sensitivity included); Biopsy for parasite exam²; Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵</p> <p>Deep lesion: \$177.00 NYS subsidized contract fee: \$50.00</p> | <p>Deep lesion: (2) fresh skin biopsies^{1,2,3,4} in plain RTT with 0.5 ml sterile saline to keep moist (not wet) +/- swab^{1,3} from deep in tissue placed in aerobic transport media (Amies with charcoal), multiple formalin fixed skin biopsies⁵. SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</p> |
| | Superficial lesion | <p>Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵; Skin scraping for ectoparasite identification⁶; Cytology⁷</p> <p>Superficial lesion: \$156.75 NYS subsidized contract fee: \$90.00</p> | <p>Superficial lesion: (1) hair and skin scraping^{3,4} 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. SHIP AT ROOM TEMPERATURE AND PROTECT FROM TEMPERATURE EXTREMES.</p> |

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* indicates test performed at a referral laboratory

LTT – Lavender Top Tube
RTT – Red Top Tube

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| <p>Fever of Unknown Origin Diagnostic Plan</p> | <p>(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)</p> <p>If case is chronic, virus isolation can be omitted if desired, see comment to right. If not already performed a large animal chemistry panel (\$41.75) may be warranted and serum (separated) or heparinized plasma (separated from green top tube) would need to be submitted.</p> | <p>\$275.50</p> <p>Chronic case with no virus isolation: \$220.25</p> <p>NYS subsidized contract fee: \$114.50 (full plan)</p> <p>\$99.50 (Chronic case with no virus isolation)</p> | <p>(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 blood^{3,4,5} (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. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology.</p> <p>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 url for other ideas of testing.</p> |
| <p>Large Animal Basic Workup</p> | <p>Fibrinogen (heat-precipitated)¹; Hemogram, routine (CBC)²; Large animal chemistry panel³</p> | <p>\$91.25</p> | <p>EDTA whole blood^{1,2} (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.</p> |
| <p>Large Animal Liver Panel</p> | <p>AST; SDH; GGT; GLDH; Total/Direct/Indirect Bilirubin; Total Protein; Albumin; Globulin; A/G Ratio; CK; Triglycerides</p> | <p>\$22.00</p> | <p>Serum (separated) or heparinized plasma (separated from green top tube). SHIP CHILLED</p> |

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| <u>Large Animal Renal Panel</u> | Na ; K ; Cl ; Bicarb ; Anion gap ; Urea ; Creatinine ; Albumin ; Ca ; P | \$22.00 | Serum (separated) or heparinized plasma (separated from green top tube). SHIP CHILLED |
| <u>Ovine Abortion Fetal Tissue Diagnostic Plan</u> | (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 ; Chlamydomphila FA ⁷ ; Chlamydomphila PCR ⁸ ; Histopathology ⁹ ; (2) Leptospira FAs ¹⁰ ; Toxoplasma FA ¹¹ ; Toxoplasma gondii modified agglutination test (MAT) ¹² ; Virus isolation ¹³ May also want to consider adding Selenium (\$55) to fetal liver especially if stillbirths and/or neonatal deaths are involved. | \$494.75 per fetus NYS subsidized contract fee: \$101.75 | Fresh tissue ^{1,2,5,6,7,8,10,11,13} : lung, placenta including cotyledons, abomasal contents, kidney, liver, heart, adrenal, skin, heart blood ^{3,4,12} in sterile red top tube AND Formalin fixed tissue ⁹ : 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 information. |
| <u>Ovine Abortion Serology Panel + Selenium</u> | Bovine Virus Diarrhea Virus (BVDV) SN, Type 1 ¹ and Type 2 ² ; Chlamydomphila CF ³ ; Leptospira MAT, 5 standard serovar ⁴ ; Selenium, (whole blood) ⁵ ; Toxoplasma gondii modified agglutination test (MAT) ⁶ If history indicates may also want to consider Brucella ovis ELISA * (\$30.00) which is performed on serum . | \$101.00 single \$175.00 paired (1 selenium) NYS subsidized contract fee: \$71.00 single | Maternal serum ^{1,2,3,4,6} (separated) and maternal EDTA whole blood ⁵ (LTT) SHIP CHILLED. 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. |

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| Small Ruminant/Camelid Pinkeye Diagnostic Plan | Aerobic bacterial culture ¹ ; Chlamydomphila PCR ² ; Mycoplasma culture ³ | \$97.00 NYS subsidized contract fee: \$86.75 | 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. |
| Small Ruminant Respiratory (Acute) Diagnostic Plan | Aerobic bacterial culture ¹ (1 sensitivity included); Bovine Respiratory Syncytial Virus (BRSV) FA ² ; Chlamydomphila PCR ³ ; Cytology ⁴ ; Fibrinogen (heat-precipitated) ⁵ ; Hemogram, routine (CBC) ⁶ ; Histopathology ⁷ ; Mycoplasma Culture ⁸ ; Virus Isolation ⁹ | \$279.00 (ante mortem samples) \$284.50 (full set of necropsy samples) NYS subsidized contract fee: \$191.25 (ante mortem samples) \$101.75 (full set of necropsy samples) | Ante mortem samples: transtracheal wash (TTW) (preferred sample) or bronchial alveolar lavage (BAL) fluid in RTT ^{1,2,3,8,9} (alternatively can use viral transport media), and in EDTA tube ⁴ (LTT), (2) air dried slides ⁴ of fluid, (1) swab inoculated with sample ^{1,8} placed in aerobic transport media (Amies w/o charcoal), EDTA whole blood ^{5,6} (LTT), and (2) air dried blood smears ⁶ . SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE AT ROOM TEMPERATURE. See Transtracheal Wash Procedure for more information. It may be helpful to collect and bank a serum sample for possible acute and convalescent serology. [Nasal or pharyngeal swabs ^{3,9} 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 ^{1,2,3,8,9} +/- 1 swab inoculated with sample ^{1,8} and placed in aerobic transport media (Amies w/o charcoal) and full set of tissues ⁷ placed in formalin . SHIP FRESH TISSUE CHILLED AND PROTECT FIXED TISSUE FROM FREEZING. |

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