

EQUINE DIAGNOSTIC PLANS/PANELS



Cornell University
College of Veterinary Medicine
Animal Health Diagnostic Center

Post Office: P.O. Box 5786
607-253-3900 (telephone)
607-253-3935 (telephone, shipping)
607-253-3943 (fax)
diagcenter@cornell.edu
<https://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 |
|--|--|---------|---|
| ACTH and Insulin | ACTH & Insulin | \$45.00 | EDTA plasma in LTT (separated and placed in plastic tube or plain RTT) and frozen within 4 hours of obtaining sample. SHIP CHILLED/FROZEN. See Equine Cushings test protocol for more information. |
| ACTH, Insulin and Leptin | ACTH, Insulin and Leptin | \$68.00 | EDTA plasma in LTT (separated and placed in plastic tube or plain RTT) and frozen within 4 hours of obtaining sample. SHIP CHILLED/FROZEN. See Equine Metabolic Syndrome Tests and Equine Cushings test protocol and for more information. Also may want to consider Equine Metabolic Diagnostic Plan on Page 6. |
| Coagulation Panel, Large Animal | aPTT ; PT ; Fibrinogen (Clauss method) | \$42.50 | 2 ml separated citrate plasma in plastic or siliconized glass tube (blue top, then separated and transferred). SHIP CHILLED. |

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|---|--|--|---|
| Dermatology Diagnostic Plans | <p>Deep lesion</p> <p>Aerobic bacterial culture¹ (1 sensitivity included); Biopsy for parasite exam²; Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵</p> <p>Superficial lesion</p> <p>Fungal culture³; Gram stain⁴; Histopathology (biopsy)⁵; Skin scraping for ectoparasite identification⁶; Cytology⁷</p> <p>All skin biopsy submissions should be accompanied by a Dermatohistopathology Submission Form. For additional guidance refer to Dermatopathology Sampling Guide.</p> | <p>Deep lesion: \$233.00</p> <p>Testing may qualify for N.Y State contract case subsidy.</p> <p>Superficial lesion: \$213.00</p> <p>Testing may qualify for N.Y State contract case subsidy.</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> <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. PROTECT SLIDES FROM FORMALIN EXPOSURE.</p> |
| | | <p>DIC Panel, Large Animal</p> <p>aPTT; PT; Fibrinogen (Clauss method); Antithrombin; D-dimer</p> | \$103.00 |
| Equine Abortion Fetal Tissue Diagnostic Plan | <p>(3) Aerobic Bacterial Cultures¹ (1 sensitivity included); Equine Arteritis Virus (EAV) FA²; Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) FA³; Histopathology⁴; Field Necropsy Surcharge⁴; (2) Leptospira PCR⁵; Virus Isolation⁶</p> <p>May want to consider West Nile Virus IgG/IgM Capture ELISA Combination⁷ on heart blood in the appropriate season.</p> | <p>\$464.00 per fetus</p> <p>Testing may qualify for N.Y State contract case subsidy.</p> | <p>FRESH tissue set^{1,2,3,5,6}: placenta, liver, lung, brain, adrenal, heart, thymus, kidney, stomach contents, fetal skin) labeled and individually bagged and fetal heart blood⁷ (plain RTT 1-3 mL), or pleural fluid⁷ in plain RTT (1-3 mL)</p> <p>Formalin fixed tissue⁴: placenta, liver, lung, brain, adrenal, heart, thymus, small intestine, kidney, and fetal skin. Kit is available. See Equine abortion kit for more complete instructions. If full necropsy desired, see Necropsy Testing. SHIP CHILLED AND PROTECT FIXED TISSUE FROM FREEZING.</p> |

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|--|---|---|--|
| Equine Abortion Serology Panel + Selenium | Equine Arteritis Virus (EAV) SN¹ ; Equine Influenza Virus (EIV) HA² ; Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) SN³ ; Leptospira MAT, 5 standard serovars⁴ ; Selenium⁵ | \$89.50 single \$151.00 paired (1 selenium) Testing may qualify for N.Y State contract case subsidy. | Maternal serum^{1,2,3,4} (separated) and maternal EDTA whole blood⁵ (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. |
| Equine Basic Workup | Fibrinogen (heat-precipitated)¹ ; Hemogram, routine (CBC)² ; Large animal chemistry³ | \$105.00 | EDTA whole blood^{1,2} (LTT) , (2) air dried blood smears², serum³ (separated). SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD REMAIN AT ROOM TEMPERATURE |
| Equine Cryptorchid Panel | Estrone Sulfate¹ ; Testosterone² | \$44.00 | Serum^{1,2} (separated). SHIP CHILLED . Horses must be at least 3 years of age. If less than 3 years consider HCG or GnRH Response, Testosterones:2 and see Large Animal Reproductive Tests for protocols. |

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LTT – Lavender Top Tube

RTT – Red Top Tube

EQUINE PANELS

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|---|--|--|--|
| Equine Complete Ophthalmic Diagnostic Plan | Aerobic bacterial culture ¹ (1 sensitivity included); Biopsy parasite (filarid) exam ² ; Cytology ³ ; Fungal Culture ⁴ ; Leptospira PCR ⁵ ; Leptospira MAT, 5 standard serovars ⁶ ; Lyme Disease, Equine Multiplex Assay ⁷ ; Lyme PCR ⁸ | \$320.50 | Aqueous humour ^{1,5,8} in sterile RTT (0.2-2 mL), conjunctival biopsy ² (in plain RTT with 0.5mL saline), conjunctival or corneal swab ^{1,4} in Amies transport media, (2) air dried slides ³ of conjunctival or corneal smear and serum ^{6,7} (separated) SHIP CHILLED EXCEPT FOR SLIDES SHOULD BE KEPT AT ROOM TEMPERATURE. |
| Equine Diarrhea, Adult (Acute) Diagnostic Plan | Anaerobic bacterial culture ¹ ; Equine Enteric Coronavirus PCR ² ; Clostridium Difficile Toxins A&B ³ ; Clostridium Perfringens Enterotoxin ⁴ ; Fecal Quantitative ⁵ ; Gram Stain ⁶ ; Hemogram, routine (CBC) ⁷ (examination for blood parasites included); Large Animal Chemistry Panel ⁸ ; Neorickettsia risticii (Potomac Horse Fever, PHF) PCR ⁹ ; Salmonella Culture ¹⁰ (1 sensitivity included); Potomac Horse Fever (PHF) IFA ¹¹ | \$372.00 Testing may qualify for N.Y State contract case subsidy. | Fresh feces in leak-proof container (20 g) ^{2,5,6,10} , frozen feces (10g) ^{3,4} , fecal swab ¹ placed in anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM), EDTA whole blood ^{7,9} (LTT), (2) air dried blood smears ⁷ , serum ^{8,11} (separated). One fecal sample ¹⁰ (1 g, fill to line on container but do not overfill) can be shipped in Para Pak® transport media to assist with Salmonella recovery. ParaPak® transport media is available or call 607.253.3935 to order these. Kit is available. SHIP CHILLED (KEEP FECES FOR TOXIN TESTING FROZEN) EXCEPT FOR PARAPAK®, PORT-A-CUL™ AND SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE. |

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EQUINE PANELS

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|--|--|---|---|
| Equine Diarrhea (Chronic) Diagnostic Plan | Aerobic bacterial culture ¹ , Rhodococcus equi included (1 sensitivity included); Fecal Quantitative ² ; Gram stain ³ ; Hemogram, routine (CBC) ⁴ ; Large animal Chemistry ⁵ ; Lawsonia IPMA ^{*6} Lawsonia PCR ⁷ ; Salmonella culture ⁸ ; Sand Analysis ⁹ | \$344.75 | Fresh feces in leak-proof container (230g, 8-10 fecal balls) ^{1,2,3,7,8,9} , EDTA whole blood ⁴ (LTT), (2) air dried blood smears ⁴ and serum ^{5,6} (separated). One fecal sample ⁸ (1 g, fill to line on container but do not overfill) can be shipped in Para Pak [®] transport media to assist with Salmonella recovery. ParaPak[®] transport media is available or call 607.253.3935 to order these. Kit is available . SHIP CHILLED EXCEPT FOR PARAPAK[®] AND SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE. |
| Equine Diarrhea/Septicemia, Foal (Acute) Diagnostic Plan† | Aerobic bacterial culture ¹ (E. coli and Rhodococcus equi included), (2 sensitivities included); Anaerobic bacterial culture ² ; Equine Enteric Coronavirus PCR ³ ; Clostridium difficile toxins A&B ⁴ ; Clostridium perfringens Enterotoxin ⁵ ; Fecal qualitative ⁶ ; Gram stain ⁷ ; Hemogram, routine (CBC) ⁸ ; Immunoglobulin G, equine – chemistry ^{!!9} ; Large animal chemistry ¹⁰ ; Rotavirus antigen (Group A) detection ¹¹ ; Salmonella culture ¹² ; Selenium (whole blood) ¹³ †If septicemia suspected, include (2) Blood cultures, aerobic ¹⁴ and (2) Blood cultures, anaerobic ¹⁵ (1 sensitivity included) If fecal qualitative is negative, consider Cryptosporidium ELISA and Giardia ELISA which are performed on fecal samples. | \$466.25 (no blood cultures) \$586.25 (w/blood cultures) Testing may qualify for N.Y State contract case subsidy. | Fresh feces in leak-proof container(20 g) ^{1,3,6,11,12} , frozen feces (10g) ^{4,5} , fecal swab ^{1,12} placed in aerobic transport media (Amies with charcoal), fecal swab ² placed in anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM), EDTA whole blood ^{8,13} (LTT), (2) air dried blood smears ⁸ , and serum ^{9,10} (separated). Include (2) inoculated aerobic blood culture bottles ¹⁴ and (2) inoculated anaerobic blood culture bottles ¹⁵ if septicemia is suspected. Kit is available . To order blood culture bottles go to shipping services or call 607.253.3935. If non-group A Rotavirus is suspected, Electron Microscopy can be requested. SHIP CHILLED (KEEP FECES FOR TOXIN TESTING FROZEN) EXCEPT FOR BLOOD CULTURE BOTTLES, PORT-A-CUL™ AND SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE. !!IgG results available within the same day. |
| Equine Foal Joint Ill Diagnostic Plan | Aerobic bacterial culture ¹ , includes direct plating plus enrichment (1 sensitivity included); Anaerobic bacterial culture ² ; Hemogram, routine (CBC) ³ ; | \$287.00 | Synovial fluid in EDTA tube ⁶ (LTT) and RTT ¹ , (1) swab inoculated with synovial fluid ¹ and placed in aerobic transport media (Amies), (1) swab inoculated with |

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VSS-WEB-038-V04

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LTT – Lavender Top Tube

RTT – Red Top Tube

EQUINE PANELS

2/10/2017 Version 1

| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|---|---|--|--|
| | <p>Immunoglobulin G, equine – chemistry⁴; Large animal chemistry⁵;</p> <p>Synovial fluid analysis (Cytology; white blood cell count, total protein)⁶</p> <p>In rare circumstances a Fungal culture may also be warranted.</p> | Testing may qualify for N.Y State contract case subsidy. | <p>synovial fluid² and placed in anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM), (2) air dried slides of synovial fluid⁶, EDTA whole blood³ (LTT), (2) air dried blood smears³, serum^{4,5} (separated). Synovial fluid can be placed in blood culture bottles to assist in bacterial recovery but sterility of sample procurement is mandatory. See Blood Culture Technique for more information. To order blood culture bottles go to shipping services or call 607.253.3935. SHIP ALL CHILLED EXCEPT FOR Port-A-Cul™, BLOOD CULTURE BOTTLES, AND SLIDES WHICH SHOULD BE AT ROOM TEMPERATURE.</p> |
| Equine Geriatric Horse Diagnostic Plan | <p>ACTH & Insulin¹; Equine Infectious Anemia (EIA) Virus c-ELISA‡²; Fecal quantitative³; Hemogram, routine (CBC)⁴; Large animal chemistry⁵; Selenium, (whole blood)⁶; Vitamin E⁷</p> | \$227.00 | <p>EDTA whole blood^{4,6} (LTT), (2) air dried blood smears⁴, serum^{2,5,7} (separated, cooled, protected from light), EDTA plasma¹ (separated and placed in plastic or plain RTT) and frozen within 4 hours of obtaining sample, fresh feces³ in a leak-proof container, (minimum of 10 grams). NEED TO INCLUDE APPROPRIATE PAPERWORK FOR COGGINS. SHIP CHILLED.</p> <p>‡If serum sample is more than 5 days old an EIA AGID will be substituted for the EIA c-ELISA.</p> |
| Equine Herpesvirus PCR Panel/EHM | <p>EHV1PCR</p> <p>EHV4PCR</p> <p>Equine Herpes Virus 1 Neurological Genotyping</p> | \$60.00 | <p>EDTA blood (LTT); nasopharyngeal swab (sterile, sealed vials with several drops of saline); tracheal wash (leak-proof container); tissues, min. 2g (lung, liver, spleen, myocardium, placenta, fetus); or CSF (cerebrospinal fluid) in leak-proof container. Refrigerate and ship chilled.</p> <p>The Equine Herpesvirus PCR Panel tests for EHV-1 and EHV-4 and includes neurotyping of any EHV-1 positive or suspect samples to assist with diagnosing equine herpesvirus myeloencephalopathy (EHM). See</p> |

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EQUINE PANELS

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|--|---|----------|--|
| | | | https://ahdc.vet.cornell.edu/news/equineherpespcr.cfm for more information. |
| Equine Mare Infertility Diagnostic Plan | Aerobic bacterial culture ¹ (1 sensitivity included); Cytology ² ; Fungal Culture ³ ; Histopathology ⁴ ; Selenium (whole blood) ⁵ ; Vitamin E ⁶ May also want to consider (2) Progesterone baseline samples 10-12 days apart or possibly a Granulosa cell panel * (progesterone, testosterone, inhibin included for if indicated. Additional serum would need to be submitted. | \$343.50 | Uterine swab ^{1,3} in Amies transport media, EDTA whole blood ⁵ (LTT), serum ⁶ (separated, cooled, protected from light), (2) uterine smears ² air dried slides and formalin fixed endometrial biopsy ⁴ . SHIP CULTURE SWABS, EDTA WHOLE BLOOD AND SERUM CHILLED. PROTECT FIXED TISSUE FROM FREEZING AND KEEP SLIDES AT ROOM TEMPERATURE AND PROTECT THEM FROM FORMALIN EXPOSURE. |
| Equine Metabolic Syndrome Diagnostic Plan | ACTH, Insulin and Leptin ¹ ; Glucose ² ; T4 ³ | \$94.00 | EDTA plasma ¹ in LTT (separated and placed in plastic tube or plain RTT) and frozen within 4 hours of obtaining sample, serum ^{2,3} (separated promptly). SHIP CHILLED/FROZEN. See Equine Metabolic Syndrome Tests for more information. |

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EQUINE PANELS

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|--|---|---|---|
| <p>Equine Neurologic Blood Only (Acute) Diagnostic Plan</p> <p>Rabies should always be considered in neurologic cases. Consult with local health department and AHDC for sample requirements</p> | <p>Eastern Equine Encephalitis (EEE) IgM^{*1}; Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) PCR²; Equine Protozoal Myeloencephalitis SAG 2,3,4^{*3}; West Nile Virus IgG/IgM Capture ELISA Combination⁴; Eastern Equine Encephalitis (EEE) PCR^{†5}</p> <p>May want to retain feed sources including hay for possible botulism testing. Contact lab for more information.</p> | \$250.50 | <p>EDTA whole blood^{2,5} (LTT), serum^{1,3,4} (separated). SHIP CHILLED. Also see Equine Neurologic CSF Diagnostic Plan if a CSF sample can be obtained.</p> <p>For an increase in sensitivity in diagnosing EHV-1 include a nasal swab in a red top with 0.5 ml sterile saline and request Equine Herpes Virus-1 (EHV-1) PCR for an additional \$36.75.</p> <p>EPM SAG 2,3,4 (CSF: Serum Ratio) is only testing for antibodies to <i>Sarcocystis neurona</i>. If testing for <i>Neospora hughesi</i> please contact lab as the IFA is required.</p> <p>†Note that EEE is not reliably detected in whole blood (CSF and brain tissue are more appropriate samples), however, EEE PCR is warranted on whole blood samples if the season and clinical signs are compatible and other samples are not available.</p> |
| <p>Equine Neurologic CSF Diagnostic Plan</p> <p>Rabies should always be considered in neurologic cases. Consult with local health department and AHDC for sample requirements</p> | <p>Aerobic bacterial culture¹; CSF Analysis (Cytology-fluid)²; (2) Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) PCR³; Equine Herpesvirus PCR Panel^{†4}; Equine Protozoal Myeloencephalitis SAG 2,3,4 (CSF:Serum Ratio)^{*5}; Lyme Disease, Equine Multiplex Assay⁶; Virus Isolation⁷; West Nile Virus IgG/IgM Capture ELISA⁸; West Nile Virus (WNV) PCR⁹; Lyme disease (Borrelia burgdorferi) PCR¹⁰; Eastern Equine Encephalitis (EEE) PCR^{††11}</p> | <p>\$580.25</p> <p>Testing may qualify for N.Y State contract case subsidy.</p> | <p>(2) CSF in plain RTT^{1,3,4,5,6,7,8,9,10,11}, and EDTA tube^{2,11} (LTT), (2) air dried slides of pellet from spun fluid²; serum^{5,6,8} (separated), nasal swab³ in RTT with 0.5 ml sterile saline. SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE.</p> <p>‡The Equine Herpesvirus PCR Panel tests for EHV-1 and EHV-4 and includes neurotyping of any EHV-1 positive or suspect samples to assist with diagnosing equine herpesvirus myeloencephalopathy (EHM). See https://ahdc.vet.cornell.edu/news/equineherpespcr.cfm for more information.</p> <p>EPM SAG 2,3,4 (CSF: Serum Ratio) is only testing for antibodies to <i>Sarcocystis neurona</i>. If testing for <i>Neospora hughesi</i> please contact lab as the IFA is required.</p> |

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|---|--|--|--|
| ‡‡ Note that EEE is not reliably detected in whole blood (CSF and brain tissue are more appropriate samples), however, EEE PCR is warranted on whole blood samples if the season and clinical signs are compatible and other samples are not available. | | | |
| Equine Pasture Pregnancy Panel | Estrone Sulfate ¹ ; PMSG: Pregnant Mare Serum Gonadotropin ² ; Progesterone baseline ³ | \$69.50 | Serum ^{1,2,3} (separated). Estrone sulfate for greater than 90 days pregnant; PMSG for 45-100 days pregnant; Progesterone for less than 60 days pregnant. See Equine Female Reproductive Testing for more information. SHIP CHILLED |
| Equine Prepurchase Exam Diagnostic Plan | Equine Infectious Anemia (EIA) Virus c-ELISA † ¹ ; Fecal Quantitative ² ; Hemogram, routine (CBC) ³ ; Large animal chemistry ⁴ ; Pre-purchase drug screen ⁵ If stallion add Equine Arteritis Virus (EAV) SN ⁶ on serum . If stallion is known EVA positive may want to consider Equine Arteritis Virus (EAV) semen isolation (OIE) on semen . Contact lab prior to semen collection. | \$264.00 Stallion with EVA SN serology: \$280.50 | Heparinized whole blood ⁵ (green top tube) 20mL, or 5mL of heparinized plasma ⁵ separated and placed in plain RTT or urine ⁵ (50 mL) in sterile container, EDTA whole blood ³ (LTT), (2) air dried blood smears ³ , serum ^{1,4,6} (separated), feces ² in leak-proof container (10 g minimum). NEED TO INCLUDE APPROPRIATE PAPERWORK FOR COGGINS. DO NOT USE GEL CLOT ACTIVATED TUBES (SST) . Kit available for sampling, call shipping at 607.253.3935 to order these. SHIP CHILLED. SLIDES SHOULD BE KEPT AT ROOM TEMPERATURE. ‡If serum sample is more than 5 days old an EIA AGID will be substituted for the EIA c-ELISA. |

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| Equine Respiratory, Adult (Acute) Diagnostic Plan | Equine Respiratory PCR Panel ^{†1} ; Streptococcus equi Culture ^{††2} (no sensitivity included); Virus Isolation ³ | \$207.00 Testing may qualify for N.Y State contract case subsidy. | Nasal swab ² in aerobic transport media (Amies), nasal swab ^{1,3} in sterile RTT with 0.5mL of sterile saline to keep sample moist, not wet. SHIP CHILLED . It may be helpful to collect and bank a serum sample for possible acute and convalescent serology. †This PCR panel tests for equine herpesvirus 1 and 4, equine adenoviruses 1 and 2, equine rhinitis viruses A and B, equine arteritis virus, influenza A virus (matrix) and streptococcus equi. All tests included in this panel are also available individually and expedited results (STAT) are also available upon request for an additional fee. This panel does not include other bacterial respiratory pathogens which would require a transtracheal wash (TTW) or bronchial alveolar lavage (BAL). See chronic respiratory panel below. See https://ahdc.vet.cornell.edu/news/respiratorypcr.cfm for more information. ††To maximize sensitivity, it is recommended that BOTH a streptococcus equi PCR (included in the PCR panel) and a streptococcus equi culture be run in parallel (requiring BOTH a nasal swab in a RTT with 0.5mL of sterile saline and a nasal swab in bacterial transport media). |

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|--|--|--|--|
| Equine Respiratory, Adult (Chronic) Diagnostic Plan | Aerobic bacterial culture ¹ (1 Sensitivity included); Anaerobic bacterial culture ² ; Cytology ³ ; EHV-5 PCR ⁴ ; Gram stain ⁵ | \$204.25 | Transtracheal wash (TTW)(preferred sample) or bronchial alveolar lavage (BAL) fluid in EDTA tube ³ (LTT) and RTT ^{4,5} , (2) air dried slides ³ of fluid, (1) swab ¹ inoculated with sample and placed in aerobic transport media (Amies) and (1) swab ² inoculated with sample and placed in anaerobic transport media (BBL™ Port-a-cul™ or Anaerobic Systems ATM). SHIP CHILLED EXCEPT FOR Port-A-Cul™ AND SLIDES WHICH SHOULD BE AT ROOM TEMPERATURE FOR ANAEROBES. See Transtracheal Wash Procedure for more information. [Nasal or pharyngeal swabs ⁴ 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] |
| Equine Respiratory, Foal Diagnostic Plan | Aerobic bacterial culture ¹ Rhodococcus equi included (1 sensitivity included); Cytology ² ; Fecal quantitative ³ ; Fibrinogen (heat-precipitated) ⁴ ; Hemogram, routine (CBC) ⁵ ; Immunoglobulin G, equine – chemistry ⁶ ; Equine Respiratory PCR Panel ^{†7} ; Large animal chemistry panel ⁸ ; Rhodococcus equi virulence factor PCR ⁹ ; Virus isolation ¹⁰ | \$495.75 Testing may qualify for N.Y State contract case subsidy. | Transtracheal wash (TTW) fluid in both EDTA tube ² (LTT), and (RTT) ^{1,7,9,10} , (2) air dried slides ² of fluid, (1) swab inoculated with sample ¹ and placed in aerobic transport media, EDTA whole blood ^{4,5} (LTT), (2) air dried blood smears ⁵ , serum ^{6,8} (separated) and fresh feces ³ in leak-proof container (10 g). SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE AT ROOM TEMPERATURE. See Transtracheal Wash Procedure for more information. [Nasal or pharyngeal swabs ^{7,10} 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.] †This PCR panel tests for equine herpesvirus 1 and 4, equine adenoviruses 1 and 2, equine rhinitis viruses A and B, equine arteritis virus, influenza A virus (matrix) and streptococcus equi. All tests included in this panel are also available individually and expedited results (STAT) are |

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* indicates test performed at a referral laboratory

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LTT – Lavender Top Tube

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EQUINE PANELS

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|--|---|--|--|
| | | | also available upon request for an additional fee. See https://ahdc.vet.cornell.edu/news/respiratorypcr.cfm for more information. §Rhodococcus equi virulence PCR has only been validated on TTW samples and nasal swabs will be rejected. |
| Equine Respiratory PCR Panel | Equine Adenovirus 1 PCR Equine Adenovirus 2 PCR Equine Arteritis Virus PCR Equine Rhinitis Virus A Equine Rhinitis Virus B Equine Herpes Virus-1 PCR Equine Herpes Virus-4 PCR Streptococcus equi PCR Equine Influenza Virus Matrix PCR | \$115.00 | Nasal Swab or deep pharyngeal swab (in sterile, sealed vials with several drops of saline added) or Trans-tracheal wash or Bronchoalveolar lavage or lung tissue (in sterile leak-proof containers) |
| Equine Respiratory Serology Diagnostic Plan | Equine Adenovirus (EAD) SN ; Equine Arteritis Virus (EAV) SN ; Equine Influenza Virus (EIV) HAI ; Equine Herpesvirus-1 (EHV-1) (Rhinopneumonitis) SN ; Equine Rhinovirus-1 (ER-A) (Equine Rhinitis A virus) SN ; Equine Rhinovirus-2 (ER-B) (Equine Rhinitis B virus) SN | \$91.00 per sample Testing may qualify for N.Y State contract case subsidy. | Serum (separated). 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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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|--|---|----------|--|
| Equine Wellness, Newborn Foal (0-48 hours) | Fibrinogen (heat-precipitated) ¹ ; Hemogram, routine (CBC) ² ; Immunoglobulin G, Equine – Chemistry ³ | \$105.00 | EDTA whole blood ^{1,2} (LTT), (2) air dried blood smears ² , serum ³ (separated). SHIP CHILLED EXCEPT FOR SLIDES WHICH SHOULD BE KEPT AT ROOM TEMPERATURE. IgG results available within the same day. |
| Equine Wellness Profile Adult/Performance | Equine Infectious Anemia (EIA) Virus c-ELISA ^{†1} ; Fecal Quantitative ² ; Hemogram, routine (CBC) ³ ; Large animal chemistry panel ⁴ ; Selenium, whole blood ⁵ ; Vitamin E ⁶ | \$182.00 | EDTA whole blood ^{3,5} (LTT), (2) air dried blood smears ³ , serum ^{1,4,6} (separated, cooled, protected from light), fresh feces ² in leak-proof container, (minimum of 10 grams). SHIP CHILLED. NEED TO INCLUDE APPROPRIATE PAPERWORK FOR COGGINS. ‡If serum sample is more than 5 days old an EIA AGID will be substituted for the EIA c-ELISA. |

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| DIAGNOSTIC PLAN/PANEL | TESTS PERFORMED | PRICES | SAMPLES NEEDED |
|--|--|---|--|
| Fever of Unknown Origin Diagnostic Plan | <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 previously performed a Large animal chemistry panel may be warranted and serum (separated) or heparinized plasma would need to be submitted.</p> | <p>\$335.00</p> <p>Chronic case with no virus isolation: \$265.00</p> <p>Testing may qualify for N.Y State contract case subsidy.</p> | <p>(3) inoculated aerobic/fungal blood culture bottles¹, (3) inoculated anaerobic blood culture bottles², nasal swab⁵ in 0.5 ml sterile 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 BLOOD CULTURE BOTTLES AND SLIDES 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.</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 <i>Small Animal Internal Medicine</i>, 5th Edition, 2014, Nelson RW and Couto CG; Chapter 88: Fever of Unknown Origin, pages 1279-1282_for other ideas of testing.</p> |
| Large Animal Liver Panel | AST ; SDH ; GGT ; GLDH ; Total/Direct/Indirect Bilirubin ; Total Protein ; Albumin ; Globulin ; A/G Ratio ; CK ; Triglycerides | \$25.00 | Serum (separated) or heparinized plasma (separated from a green top tube). SHIP CHILLED |
| Large Animal Renal Panel | Na ; K ; Cl ; Bicarb ; Anion gap ; Urea ; Creatinine ; Albumin ; Ca ; P | \$28.00 | Serum (separated) or heparinized plasma (separated from a green top tube). SHIP CHILLED |

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