

TEST	SAMPLE TYPE	PERFORMED	TURNAROUND	COMMENTS/SPECIAL INSTRUCTIONS
CHEMISTRY				
Ammonia (NH ₃)	Li Hep	Daily	1 day	Submit within 30 minutes of collection, keep cool or on ice
Bile Acids	Li Hep or Red Top	Daily	1 day	Protect from light, wrap in foil (*)
Bilirubin Profile (T Bili, D Bili, InD Bili)	Li Hep or Red Top	Daily	1 day	Protect from light, wrap in foil (*)
Blood Gases	1-2 cc heparinized syringe-corked	Daily	1 day	Submit within 10 minutes of collection;
Cardiac Enzymes (CK, LDH, AST)	Li Hep or Red Top	Daily	1 day	(*)
Chem Profile (Na, K, Cl, CO ₂ , Anion Gap, Gluc, Bun, Creat, Ca, Phos, TP, Alb, Alk P, GGT, AST, LD, CK, T Bili)	Li Hep or Red Top	Daily	1 day	(*)
Colostrum IgG	2 ml Colostrum in Red Top Tube	Daily	1 day	
Direct Bilirubin	Li Hep or Red Top	Daily	1 day	Protect from light, wrap in foil (*)
Electrolytes (Na, K, Cl, CO ₂ , TP)	Li Hep or Red Top	Daily	1 day	(*)
Foal Profile (CBC, TP, IgG)	EDTA	Daily	1 day	
Glucose Tolerance	Li Hep, Red Top, or Grey top tubes	Daily	1 day	Specify collection times; centrifuge and send plasma or serum
IgG	EDTA, Li Hep, or Red Top	Daily	1 day	(*)
Individual Chemistries (Refer to Chem Profile above)	Li Hep or Red Top	Daily	1 day	(*)
Intracellular K+	Li Hep	Daily	1 day	Hemolyzed specimen will be rejected
Ionized Calcium	Li Hep	Daily	1 day	(*)
Lactate	Li Hep	Daily	1 day	Submit within 30 minutes of collection, keep cool or on ice;(*)
Liver Profile (LD, Alk P, GGT, AST, T Bili)	Li Hep or Plain Red Top	Daily	1 day	(*)
Magnesium	Li Hep or Red Top	Daily	1 day	(*)
Milk Electrolytes (Na, K, Ca, Ionic Points)	Milk in Red Top Tube	Daily	1 day	
Serum Amyloid A (SAA)	Red Top Tube	Daily	1 day	
SDH	Li Hep or Red Top	Daily	1 day	(*)
Therapeutic Profile (Hemogram, Lytes)	EDTA and Li Hep	Daily	1 day	
Triglycerides	Li Hep or Plain Red Top	Daily	1 day	(*)
Urine Fractionation Panel (Na, K, Cl, CO ₂ , Creat, GGT)	2 ml urine in Red Top Tube	Daily	1 day	
COAGULATION				
APTT (Activated Partial Prothrombin Time)	Sodium Citrate	Daily	1 day	Submit within 30 minutes of collection, keep cool or on ice
PT (Prothrombin Time)	Sodium Citrate	Daily	1 day	Submit within 30 minutes of collection, keep cool or on ice

Li Hep - Lithium Heparin-Green Top; EDTA - Purple Top; Sodium Citrate - Blue Top

* Li Hep - Lithium Heparin is the preferred specimen for chemistry testing when available. For quicker turnaround times submit lithium heparin tubes or Li Hep plasma

† Slides will be accepted, but brush, swab, or fluid is the preferred specimen type.

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CYTOLOGY				
Abscess/Miscellaneous Aspirate	Slides, Swab in Red top tube, or fluid in EDTA	Daily	1 day	Specify specimen site (†)
Eye/Ear	Slides or Swab in Red top tube	Daily	1 day	Specify specimen site (†)
Fecal Cytology	Feces	Daily	1 day	
Milk	Red Top Tube	Daily	1 day	
Seminal (Semen)	Fluid in Sterile Cup	Daily	1 day	
Skin	Red top	Daily	1 day	
Sterile Body Fluid (Joint, Peritoneal, Fluid, CSF, etc.,)	Fluid in EDTA preferred, or fluid in sterile container	Daily	1 day	(†) Specify body fluid and specimen site if applicable; Examples: Joint/Synovial, Chest/Pericardial, Abdominal/Peritoneal, or Pleural
TTW (<i>Trans Tracheal Wash</i>)	TTW in EDTA (purple) tube, or sterile container,	Daily	1 day	(†)
Uterine	Slides or fluid in EDTA	Daily	1 day	(†)
Uterine Flush	Fluid in Sterile Container	Daily	1 day	
FLUID ANALYSIS				
BAL (Bronchial Lavage) Analysis (<i>Cell Counts & Cytology</i>)	EDTA (purple top) tube	Daily	1 day	
Body Fluid Analysis (<i>WBC, RBC, TPP, Cytology</i>)	EDTA (purple top) tube	Daily	1 day	(†) Specify body fluid and specimen site if applicable; examples: Joint/Synovial, Chest/Pericardial, Abdominal/Peritoneal, or Pleural
Body Fluid Cell Count (<i>WBC, RBC, TPP</i>)	EDTA (purple top) tube	Daily	1 day	
CSF Analysis (<i>WBC, RBC Cytology, Gluc, LD, CK, and Micro TP</i>)	EDTA (purple top) tube	Daily	1 day	
Urinalysis (<i>includes dipstick and microscopic analysis</i>)	Sterile Cup	Daily	1 day	
HEMATOLOGY				
CBC (<i>WBC, RBC, Hgb, Hct, MCV, MCH, MCHC, Plt, WBC differential</i>)	EDTA	Daily	1 day	
Differential (<i>Neutro, Bands, Lymph, Monos, Eos, Baso</i>)	EDTA	Daily	1 day	Specify if Automated or Manual
Fibrinogen	Sodium Citrate	Daily	1 day	
Foal Profile (<i>CBC, TP, IgG</i>)	EDTA	Daily	1 day	
Hemogram (<i>WBC, RBC, Hgb, Hct, MCV, MCH, MCHC, Plt</i>)	EDTA	Daily	1 day	
Platelet Count	EDTA	Daily	1 day	
HORMONE ASSAYS				
Progesterone (<i>P4</i>)	Plain Red Top	see comments	1-3 days	M-F (Season); Volume Dependent (Off Season)(‡)
T4	Plain Red Top	see comments	1-3 days	M-F (Season); Volume Dependent (Off Season)(‡)
eACTH	EDTA	Daily	1 day	Remove plasma from cells immediately and freeze if unable to test within 4 hours
Insulin	EDTA	Daily	1 day	Remove plasma from cells immediately and refrigerate if unable to test immediately
Cortisol - Neonatal	Plain Red Top	Daily	1 day	
Endocrine Panel (eACTH, Insulin, Cortisol, Glucose, Triglycerides)	EDTA & Plain Red Top	Daily	1 day	Remove plasma from cell immediately and perform testing
Oral Sugar Test (OST)	EDTA	Daily	1 day	Fast patient 3-6 hours, then administer corn syrup orally at a dose of either 0.15 or 0.45 ml/kg. Measure blood insulin concentration at 60 and/or 90 minutes later.
TRH Stimulation Test	EDTA	Daily	1 day	Remove plasma from cell immediately and perform testing

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IMMUNOHEMATOLOGY				
Coombs	EDTA	Daily	1 day	(‡)
JFA (Jaundice Foal Agglutination)	Mare's Colostrum in Plain Red Top <u>AND</u> Foal's blood in Plain Red Top	Daily	1 day	(‡)
NI Screen (Neonatal Isoerythrolysis)	Plain Red Top	see comments	1-3 days	M-F (Season); Volume Dependent (Off Season)(‡) Collect within two weeks of mare foaling. Serum separator tubes and hemolyzed specimens will be rejected.
Transfusion Crossmatch	Plain Red Top from Donors and Recipient	Daily	1 day	(‡)
SEROLOGY				
Coggins - AGID (Regular)	Plain Red Top	Daily	1-2 days	(‡)
Coggins - Elisa (2-hour)	Plain Red Top	Daily	2 hours	(‡)
‡ DO NOT USE SERUM SEPARATOR TUBES				
MICROBIOLOGY (Sensitivities are included in the Culture)				
Abscess Culture	Purulent material submitted in Amies Clear or LQ Stuart's Culturette	Daily	3-5 days	Specify source
Anaerobe Culture	Specimen submitted in Port A Cult tube or other suitable anaerobic media	Daily	3-5 days	Specify source; Identification only, no sensitivities performed
Blood Culture	1-3 mls of venous blood using sterile techniques injected into a Blood Culture Bottle	Daily	4-5 days	Do not put on ice
Body Fluid Culture	Fluid submitted in Amies Clear or LQ Stuart's Culturette	Daily	3-5 days	Process immediately, keep at room temperature
Eye Culture	Swab submitted in Amies Clear or LQ Stuart's Culturette	Daily	3-5 days	Submit specimen within 2 hour of collection, if delay in processing refrigerate specimen
Fecal Aerobe Culture	Fecal specimen submitted in sterile container or fecal swab in LQ Stuart's media	Daily	3-5 days	Submit specimen within 2 hour of collection, if delay in processing refrigerate specimen
Fecal Anaerobe Culture	Fecal specimen submitted in Port A Cult tube	Daily	3-5 days	Submit specimen in sterile container or LQ Stuart Culturette within 2 hours of collection, Identification only, no sensitivities performed.
Fecal Egg Counts	2 tbsp fecal material in sterile container	Daily	1-2 days	Gloves are not an acceptable container
Fecal Occult Blood	Fresh fecal specimen submitted in sterile container	Daily	1 day	Minimum sample amount should be about the size of a quarter; gloves are not an acceptable container
Milk/Udder Culture	Milk or Swab of mild or infected udder	Daily	3-5 days	
Nasal Culture	Nasal flush or Nasal Swab submitted in LQ Stuart's or Amies Clear Culturette	Daily	3-5 days	Refrigerate if delay in processing sample
Salmonella Culture	Fecal specimen submitted in sterile container or fecal swab in LQ	Daily	2 - 4 days	
Skin (Includes aerobic and DTM) Culture	Skin or hair follicles submitted in sterile container	Daily	3 - 5 days	Keep sample at room temperature until processed
Stallion Culture	Swab submitted in Amies Clear or LQ Stuart's Culturette	Daily	2-5 days	Specify Site
Strep equi Screen Culture	Specimen submitted in LQ Stuart's or Amies Clear Culturette	Daily	3-5 days	Specify Site; refrigerate if delay in processing sample
Trans Tracheal Wash (TTW) Culture	Specimen submitted in LQ Stuart's or Amies Clear Culturette	Daily	3-5 days	Can submit specimen in sterile container if processed within 2 hours of collection; refrigerate if delay in processing specimen
Urine Culture	Urine submitted in Sterile Container	Daily	2-5 days	Refrigerate if delay in processing sample
Uterine Culture	Swabs submitted in Amies Clear or LQ Stuarts Culturette	Daily	2-5 days	Keep at room temperature
Uterine Flush Culture	Fluid submitted in Amies Clear or LQ Stuart's Culturette or sterile container	Daily	2-5 days	Keep at room temperature

Wound Culture	Swab submitted in Amies Clear or LQ Stuart's Culturette	Daily	3-5 days	Specify site
TEST	SAMPLE TYPE	PERFORMED	TURNAROUND	COMMENTS/SPECIAL INSTRUCTIONS
PCR(INDIVIDUAL TESTS)				
Clostridium difficile A/B qPCR	Feces or rectal swab	M - F	1-3 days	(U)
Clostridium perfringens Enterotoxin qPCR (C perf, CPE)	Feces or rectal swab	M - F	1-3 days	(U)
Coronavirus qPCR	Feces or rectal swab	M - F	1-3 days	(U)
Cryptosporidium spp. qPCR	Feces or rectal swab	M - F	1-3 days	(U)
Enviromental Salmonella qPCR	Swab	M - F	3-4 days	
Equine Herpesvirus 1 qPCR(includes neuropathogenic and non-neuropathogenic)	Nasal swab (preferred specimen), EDTA whole blood, or uterine swab	M - F	1-3 days	(U)
Equine Herpesvirus 4 qPCR	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Equine Influenzae qPCR	Nasal swab or wash, or transtracheal wash	M - F	1-3 days	(U)
Equine rhinitis A qPCR	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Equine rhinitis B qPCR	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Lawsonia intracellularis qPCR	Feces or rectal swab	M - F	1-3 days	(U)
Neorickettsia risticii qPCR (Potomac Horse Fever)	Feces or EDTA whole blood	M - F	1-3 days	(U)
Rhodococcus equi (vapA gene) qPCR	Transtracheal wash or feces	M - F	1-3 days	(U)
Rotavirus qPCR (include A&B)	Feces or rectal swab	M - F	1-3 days	(U)
Salmonella qPCR	Feces or rectal swab	M - F	2-5 days	
Streptococcus equi subsp equi qPCR	Guttural pouch lavage, nasal swab or wash, or Transtracheal wash	M - F	1-3 days	(U)
PCR (PANELS)				
Adult Diarrhea qPCR Panel (Salm,C diff tox A/B, CPE, Lawsonia, PHF,ECV)	Feces or rectal swab	M - F	2-5 days	
Clostridium perfringens Toxins (C perf,CPA, CPB,CPB2,CPE, netF) qPCR	Feces or rectal swab	M - F	1-3 days	(U)
EHV1 qPCR Panel	Nasal swab or wash and EDTA whole blood	M - F	1-3 days	(U)
EHV1&4 qPCR Panel	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Equine Rhinitis A&B qPCR	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Foal Diarrhea qPCR Panel (Salm, Rota, C diff tox A/B, C perf Ag, CPE, C perf netF, ECV, PHF, Lawsonia, R equi)	Feces or rectal swab	M - F	2-5 days	
IDC Environmental qPCR Panel(Salm, C diff tox A/B, C perf, Crypto, Rota)	Swiffer, feces or rectal swab	M - F	2-5 days	
Neonatal Diarrhea qPCR Panel (Salm,Rota A, Rota B, C diff Tox A/B, C perf Ag, C perf Toxins(A, B, B2, Enterotoxin& netF), E hirae/durans)	Feces or rectal swab			
Neorickettsia risticii qPCR Panel (Potomac Horse Fever)	Feces and EDTA whole blood	M - F	1-3 days	(U)
Respiratory qPCR Panel (EHV1, EHV4, EIV,S equi)	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Respiratory qPCR Panel Plus (EHV1, EHV4, EIV,S equi, ERAV,ERAB)	Nasal swab or wash or transtracheal wash	M - F	1-3 days	(U)
Preferred specimen for swabs is a dry dacron swab placed in a plain red top tube.				
⊔ Samples must be received by 7am EST for same day turnaround time (5pm EST). Any samples failing quality control will require an additional 24 hours for retesting.				

