

For any questions or to order,  
please call 1-888-965-9652

TAT: TURNAROUND TIME SST ●: SERUM SEPARATOR RTT ●: SERUM (NO GEL) LTT ●: EDTA  
BTT ●: SODIUM CITRATE GRNTT ●: HEPARIN CTT: STERILE NO ADDITIVE TUBE

## CHEMISTRY

### ClinChem 18

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

Glucose, Sodium, Potassium, Sodium:Potassium Ratio, Chloride, BUN, Creatinine, BUN:Creatinine Ratio, Calcium, Phosphorus, Total Protein, Albumin, Globulin, Albumin:Globulin Ratio, ALT, ALP, Total Bilirubin, Cholesterol

### ClinChem 25

TAT: Same day received or 8 a.m. next day

●● 1 mL serum in SST or RTT

ClinChem 18 + CO<sub>2</sub>, Anion Gap, Magnesium, AST, GGT, CK, and Calc. Osmolality

## HEMATOLOGY

**CBC** *recommended for wellness screens in non-geriatric, healthy patients*

TAT: Same day received or 8 a.m. next day. Path review may extend turnaround time for final report.

● 2 mL LTT, air dried slides

RBC, hematocrit, hemoglobin, MCV, MCHC, CHCM, RDW, WBC, WBC differential, platelet count, and MPV. If indicated, will include a PCV, manual differential, and/or reticulocyte count.

**Comprehensive CBC** *recommended for sick or geriatric patients*

TAT: Same day received or 8 a.m. next day. Path review may extend turnaround time for final report.

● 2 mL LTT, air dried slides

CBC with blood smear review by technician. If indicated, will include a PCV, manual differential, saline agglutination test, reticulocyte count, and/or pathologist review.

## ENDOCRINOLOGY

### T4

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### Free T4

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### TSH

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### Cortisol

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in RTT

### Fructosamine

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

## URINALYSIS

### Urinalysis

TAT: Same day received or 8 a.m. next day

2 mL urine in sterile container

### Urine Protein:Creatinine Ratio

TAT: Same day received or 8 a.m. next day

1 mL urine in sterile container

## FECAL

### Ova and Parasite

TAT: Same day received or 8 a.m. next day

3 gm fresh feces

### Giardia ELISA

TAT: Same day received or 8 a.m. next day

3 gm fresh feces

## SEROLOGY/INFECTIOUS DISEASES

### Tick Panel

TAT: Same day received or 8 a.m. next day

●●● 0.25 mL of serum, plasma, or whole blood

Lateral Flow Assay

*Ehrlichia, Anaplasma, Borrelia* (Lyme)

### Heartworm Antigen

TAT: Same day received or 8 a.m. next day

●●● 0.25 mL of serum, plasma, or whole blood

Lateral Flow Assay +/- ELISA

### FeLV/FIV

TAT: Same day received or 8 a.m. next day

●●● 0.25 mL of serum, plasma, or whole blood

Lateral Flow Assay +/- ELISA

## INDIVIDUAL TESTS

### DGGR Lipase

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### SDMA

TAT: 1-4 days

●● 1 mL serum in SST or RTT

### Triglycerides

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

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# Advanced Tests

December 2020

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## HISTOPATHOLOGY

*Histopathology reports include diagnosis, microscopic description, comments, and digital images. When submitting histopathology samples, a patient history and sample description are required.*

### Simple, Single Site

TAT: 2–5 days

Formalin-fixed tissue

Single site tissue, no more than 10 cm in any dimension.

### Simple, Multiple Sites (up to 5 sites)

TAT: 2–7 days

Formalin-fixed tissue

Tissue samples from multiple sites, samples no more than 10 cm in any dimension.

### Complex, Level 1

TAT: 2–7 days

Fresh or formalin-fixed tissue

Whole organs such as eye, spleen, testicle/s, uterus, or ovaries; amputated digit; multiple gastrointestinal biopsies; a sample greater than 10 cm in any dimension, such as liver lobe, lung lobe, mastectomy; dermatopathology without a dermatologist consult; samples from more than 5 sites.

### Complex, Level 2

TAT: Varies by nature of sample

Fresh or formalin-fixed tissue

Examples: Mandible, maxilla, amputated limb, and other large/atypical samples containing bone.

### Dermatopathology + Dermatologist Consult

TAT: Dermatopathology: 2–5 days. Consult provided after dermatopathology Tissue, detailed history, and images are required.

Addendum provided with dermatologist case management guidance. Skin punch biopsies or other similarly sized skin sample. Please provide detailed patient history and clinical images. Clinical images can be sent to [referencelabpathology@zoetis.com](mailto:referencelabpathology@zoetis.com).

### Liver Panel

TAT: Histopathology: 2–5 days. Quantitative copper analysis: 3–7 days

H&amp;E, copper, iron, and connective tissue stains and copper quantification.

Please submit at least 3, 1 cm, 14G hepatic needle biopsies, a wedge biopsy, or other larger liver tissue sample. Any liver imaging reports required.

### Necropsy in a jar

TAT: Case dependent

Tissue, detailed history, differential diagnosis, and gross necropsy findings are required.

## CYTOPATHOLOGY

*Cytopathology reports include diagnosis, clinical comments (if applicable), and microscopic description. When submitting slides, a patient history and sample description are required.*

### Simple: Single site

TAT: 1–2 days

Unstained, air-dried slides or fluid in LTT

## CYTOPATHOLOGY (continued)

### Complex

TAT: 1–2 days

Unstained, air-dried slides or fluid in LTT

- FNA of more than one site
- Joint fluid
- CSF
- Fluid analysis (non-joint)
- Bone marrow
- BAL
- Lymph node

### Digital Cytology

TAT: Same day if received by 3 p.m. Next business day if received after 3 p.m. Call Customer Service to learn more.

Digital image evaluation by pathologist.

## MICROBIOLOGY

### Aerobic C&S

TAT: 2–3 days

Culturette or fluid/tissue in CTT or sterile tube

### Aerobic C&S and Anaerobic ID

TAT: 5 days

Culturette or fluid/tissue in CTT or sterile tube

### Urine C&S

TAT: 2–3 days

1 mL urine submitted in CTT or sterile tube

### Fungal Culture

TAT: Up to 26 days for final report

Culturette, fluid in CTT or sterile tube, or fresh tissue in CTT or sterile tube accepted.

### Fecal Culture

TAT: 10–14 days

5 gm of fresh feces, submitted in a fecal tube

### Dermatophyte Culture

TAT: 12 days for final report

Hair or nail clippings in CTT, skin scrapings in CTT, culturette or fluid/tissue in CTT or sterile tube

## ENDOCRINOLOGY

### ACTH Stim: 1 pre and 1 post

#### Each additional post sample

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in RTT or SST

2 samples needed for testing. Please clearly label tubes with collection times.

### Dexamethasone Suppression: 1 pre and 1 post

#### Each additional post sample

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in RTT or SST

2 samples needed for testing. Please clearly label tubes with collection times.

### Progesterone

TAT: Same day received or 8 a.m. next day

● 0.5 mL serum in RTT

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## INDIVIDUAL TESTS

### Stone Analysis (Urolithiasis Laboratory, Houston, TX)

TAT: 4-9 days

Dry stones in sterile container with no additive

### Urine Cortisol:Creatinine Ratio

TAT: Same day received or 8 a.m. next day

1 mL urine in sterile container

### iCa<sup>++</sup> (ionized calcium)

TAT: Same day received or 8 a.m. next day

● 0.5 mL whole blood or plasma from GRNTT

### PT/PTT

TAT: Same day received or 8 a.m. next day

● BTT filled according to tube manufacturer

## SEROLOGY/INFECTIOUS DISEASE

### Cryptococcus Antigen Titer by Latex Agglutination

TAT: 1-2 days

●● 0.5 mL serum in SST or RTT or CSF

### Coccidioides Antibody (Protatek)

TAT: 2-5 days

●● 1 mL serum in SST or RTT

### Blastomyces Quantitative Antigen EIA (Protatek)

TAT: 3-5 days

●● 1-2 mL serum or plasma **or** 0.8 mL CSF **or** 0.5 mL urine

### Fungal Titers (Protatek)

TAT: 3-6 days

●● 1 mL serum in SST or RTT

*Coccidioides*, *Blastomyces*, *Histoplasma* (can substitute *Aspergillus* and/or *Cryptococcus*; please indicate substitution on request form)

### Tick Titers

TAT: 2-5 days

●● 0.5 mL serum in SST or RTT **or** 0.25 mL CSF

*E. canis* (IFA), *A. phagocytophilum* (IFA), *B. burgdorferi* (Western Blot)

### Tick Titer Panel (N. Carolina State Univ.)

TAT: 2-5 days

●● 1 mL serum in SST or RTT

*Babesia canis*, *B. gibsoni*, *Ehrlichia canis*, *Rickettsia rickettsii*, *Bartonella henselae*, *B. vinsoni*, *B. koehlerae* (by IFA) and Lyme, *Anaplasma*, *Ehrlichia*, and Heartworm (by rapid assay)

### Toxoplasma Titers (IgG/IgM) (Colo. State Univ.)

TAT: 3-5 days

●● 0.5 mL serum in SST or RTT **or** 0.25 mL CSF

### Canine Vaccine Titer (Qualitative)

TAT: 1-4 days

●● 1 mL serum in SST or RTT

Qualitative titer for canine distemper virus and canine parvovirus

### Feline Core Vaccine Titer (Cornell Univ.)

TAT: 4-9 days

●● 1 mL serum in SST or RTT

Herpesvirus, Calicivirus, Parvovirus (Panleukopenia)

## SEROLOGY/INFECTIOUS DISEASE (cont.)

### Feline Heartworm Antibody (ELISA)

TAT: 1-3 days

●●● 150 uL serum SST or RTT or LTT

### Rabies Titer (Kansas State Univ.)

TAT: 3-4 weeks

●● 1 mL serum in SST or RTT

### Canine Core Vaccine and Rabies Titers (Kansas State Univ.)

TAT: 3-4 weeks

●● 2 mL serum in SST or RTT

### Leptospira MAT, 5 Serovar (Cornell Univ.)

TAT: Up to 10 days

●● 0.5 mL serum in SST or RTT

### Leptospira PCR (Cornell Univ.)

TAT: Up to 10 days

● 2 mL urine and 1 mL EDTA whole blood

### Leptospira Antibodies (IgM)

TAT: Same day received or 8 a.m. next day

●●●● 1 mL serum SST or RTT **or** 1 mL GRNTT **or** 1 mL BTT

Lateral flow assay

## GI/PANCREATIC TESTING

### Bile Acids Pre/Resting

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### Bile Acids Post

TAT: Same day received or 8 a.m. next day

●● 0.5 mL serum in SST or RTT

### Canine Pancreatic Lipase (cPL)

TAT: 8 a.m. next day

●● 0.5 mL serum in SST or RTT, patient fasted 12-18 hours

Semi-quantitative lateral flow assay

### Feline Pancreatic Lipase (PLI) (Texas A&M GI Lab)

TAT: 2-5 days

●● 0.5 mL serum in SST or RTT, patient fasted 12-18 hours

### Canine TLI

TAT: 8 a.m. next day

●● 0.5 mL serum in SST or RTT, patient fasted 12-18 hours

### Feline TLI (Texas A&M GI Lab)

TAT: 2-5 days

●● 0.5 mL serum in SST or RTT, patient fasted 12-18 hours

### Canine or Feline Cobalamin and Folate

TAT: Same day received or 8 a.m. next day

●● 1 mL serum in SST or RTT

### Canine Cobalamin, Folate, and TLI

TAT: Same day received or 8 a.m. next day

●● 2 mL serum in SST or RTT, patient fasted 12-18 hours

### Feline Cobalamin, Folate, and TLI (Texas A&M GI Lab)

TAT: 2-5 days

●● 2 mL serum in SST or RTT, patient fasted 12-18 hours

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### GI/PANCREATIC TESTING (continued)

#### Canine PLI, TLI, Cobalamin, and Folate

TAT: Same day received or 8 a.m. next day

●● 2 mL serum in SST or RTT, patient fasted 12-18 hours

#### Feline PLI, TLI, Cobalamin, and Folate (Texas A&M GI Lab)

TAT: 2-5 days

●● 2 mL serum in SST or RTT, patient fasted 12-18 hours

### PCR TESTING

#### Canine/Feline GI/Diarrhea Panel (Research Assoc. Lab)

TAT: 2-5 days

5 gm fresh feces or GI biopsy tissue

Canine: *Campylobacter coli*, *Campylobacter jejuni*, Canine Circovirus, Canine Distemper Virus, *Giardia*, *Salmonella*, Canine Enteric Coronavirus, Canine Parvovirus, *Cryptosporidium*

Feline: *Campylobacter coli*, *Campylobacter jejuni*, *Cryptosporidium*, Feline Coronavirus, Feline Panleukopenia Virus, *Giardia*, *Salmonella*, *Toxoplasma gondii*, *Trichostrongylus axei*

#### Canine /Feline Respiratory Panel (Research Assoc. Lab)

TAT: 2-5 days

Deep pharyngeal or conjunctival swab, submit dry & keep refrigerated

Canine: *Bordetella bronchiseptica*, Canine Adenovirus Type 2, Canine Distemper Virus, Canine Herpes Virus Type 1, Canine Influenza Virus, Canine Parainfluenza Virus, Canine Pneumovirus, Canine Respiratory Coronavirus, *Mycoplasma cynos*, *Streptococcus equi zooepidemicus*

Feline: *Bordetella bronchiseptica*, *Chlamydia felis*, Feline Calicivirus, Feline Herpes Virus Type 1, Influenza Type A, *Mycoplasma felis*

#### Canine/Feline Anemia Panel (Research Assoc. Lab)

TAT: 2-5 days

● 2 mL LTT

Canine: *Anaplasma*, *Babesia*, Canine Hemotropic *Mycoplasma*, *Ehrlichia*, *Hepatozoon*, *Leptospira*, *Rickettsia rickettsia*

Feline: *Anaplasma*, *Bartonella*, *Cytauxzoon felis*, *Ehrlichia*, Feline Hemotropic *Mycoplasma*, FeLV, FIV

### PCR TESTING (continued)

#### Canine/Feline Fever of Unknown Origin Panel (Research

Assoc. Lab)

TAT: 2-5 days

● 2 mL LTT

Canine: *Anaplasma*, *Babesia*, *Bartonella*, *Brucella canis*, *Ehrlichia*, *Hepatozoon*, *Leptospira*, *Neosporium caninum*, *Neorickettsia helminthoeca*, *Rickettsia rickettsii*, *Toxoplasma gondii*, *Trypanosoma cruzi*, *Leishmania*

Feline: *Anaplasma*, *Bartonella*, *Cryptococcus*, *Cytauxzoon felis*, *Ehrlichia*, Feline Calicivirus, Feline Coronavirus, Feline Hemotropic *Mycoplasma*, Feline Panleukopenia Virus, FeLV, FIV, *Salmonella*, *Toxoplasma gondii*

#### Feline Hemotropic Mycoplasma (Research Assoc. Lab)

TAT: 2-5 days

● 2 mL LTT

Formerly *Hemobartonella*

#### Canine Parvovirus (Research Assoc. Lab)

TAT: 4-7 days

Can be performed on different specimen sources: 1 gm feces; paraffin block; fecal or anal swab placed in 1 mL sterile saline; 1-5 gm tissue. Please indicate whether there was vaccination with modified-live vaccine within the last 2 to 3 weeks.

#### Feline Parvovirus (Panleukopenia) (Research Assoc. Lab)

TAT: 4-7 days

Can be performed on different specimen sources: 1 gm feces; paraffin block; fecal or anal swab placed in 1 mL sterile saline; 1-5 gm tissue. Please indicate whether there was vaccination with modified-live vaccine within the last 2 to 3 weeks.

### THERAPEUTIC DRUG MONITORING/ PHARMACOLOGY

#### Bromide

TAT: 8 a.m. next day

●● 0.5 mL serum in SST or RTT

#### Phenobarbital

TAT: 8 a.m. next day

● 0.5 mL serum in RTT

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# Specialized Tests

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## ENDOCRINOLOGY

### Extensive Canine or Feline Thyroid Panel (Mich. State Univ.)

TAT: 4-6 days

●● 2 mL serum in SST or RTT; refrigerate or freeze prior to shipment

Canine: TT4, TT3, FT4d, T4AA, T3AA, TSH, TgAA

Feline: TT4, TT3, FT4d, TSH

### Malignancy Panel (Mich. State Univ.)

TAT: 2-5 days

●●● 1 mL serum in SST or RTT, 0.5 mL plasma LTT, freeze sample prior to shipment; both plasma and serum required

PTH, PTHrp, iCa++

### Parathyroid Panel (Mich. State Univ.)

TAT: 4-8 days

●● 1 mL serum in SST or RTT; refrigerate or freeze prior to shipment

PTH, iCa++

### Free T4 by ED (Mich. State Univ.)

TAT: 3-6 days

●● 0.5 mL serum in SST or RTT

### Insulin: Glucose Ratio

TAT: 8 a.m. next day

●● 1 mL serum in SST or RTT

### Anti-Mullerian Hormone (Cornell Univ.)

TAT: 3-8 days

●● 0.5 mL serum in SST or RTT

## SEROLOGY/INFECTIOUS DISEASES

### Modified Knott's for Microfilaria

TAT: 1-2 days

● 2 mL LTT

### Feline Coronavirus (ELISA)

TAT: 2-3 days

●● 0.5 mL serum in SST or RTT

### Feline Coronavirus (IFA)

TAT: 2-3 days

●● 1 mL serum in SST or RTT

### Brucella canis Antibody

TAT: 1-2 days

●● 0.5 mL serum in SST or RTT

Rapid slide agglutination test

### FIP by PCR (RAL)

TAT: 2-5 days

● 1 mL LTT, CSF, or other body fluid

### Neurology Infectious Disease Panel (Protatek)

TAT: 2-5 days

●● 1 mL serum in SST or RTT

*E. canis*, *R. rickettsii*, *B. burgdorferi* IFA, *Blastomyces*, *Histoplasma*, *Coccidioides* IgG/IgM, *Toxoplasma* IgG, *Cryptococcus neoformans*, *Neosporium caninum* IgG/IgM, *A. phagocytophilum*, *Aspergillus* spp.

## SEROLOGY/INFECTIOUS DISEASES (cont.)

### Lyme Canine Multiplex Assay (Cornell Univ.)

TAT: 2-5 days

●● 2 mL serum in SST or RTT

### FeLV (IFA) (National Veterinary Laboratory)

TAT: 4-6 days

2 unfixed quality blood smears; ship non-refrigerated

## INDIVIDUAL TESTS

### Quantitative Copper (Colo. State Univ.)

TAT: 7-10 days

Paraffin block, formalin-fixed tissue, or fresh tissue

### Protein Electrophoresis

TAT: 3-6 days

●● 0.5 mL serum in SST or RTT or 3 mL urine

### Acetylcholine Receptor Antibody/Myasthenia Gravis

(UC San Diego Comparative Neuromuscular Laboratory)

TAT: 7-12 days

●● 1-2 mL serum SST or RTT. Specimen should be collected prior to administration of corticosteroid or other immunosuppressive therapy.

### 2M Antibody Masticatory Muscle Myositis

(UC San Diego Comparative Neuromuscular Laboratory)

TAT: 7-12 days

●● 1-2 mL serum SST or RTT. Specimen should be collected prior to administration of corticosteroid or other immunosuppressive therapy.

### Canine Muscle Panel

(UC San Diego Comparative Neuromuscular Laboratory)

TAT: 6-9 days

Biopsy, approx. 0.5x0.5x1 cm. Should be taken from affected but not end-stage muscle.

### Taurine: Whole Blood (UC Davis Amino Acid Laboratory)

TAT: 10 days

● At least 2 mL whole blood in lithium heparin GRNTT

### Taurine: Plasma (UC Davis Amino Acid Laboratory)

TAT: 10 days

● At least 2 mL lithium heparin plasma, submitted in CTT or RTT

### Anti-Nuclear Antibody by IFA

TAT: 2-10 days

●● 0.5 mL serum in SST or RTT

### 25-Hydroxy Vitamin D3 (Mich. State Univ.)

TAT: 4-10 days

●●● 0.5 mL serum, EDTA plasma, or heparinized plasma in RTT

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## PCR TESTING

### Individual Organism (RAL)

TAT: 2-5 days

● Fresh tissue, EDTA whole blood (LTT), stool, swab, depending on which organism is being tested

### Pick 4 Organisms (RAL)

TAT: 2-5 days

● Fresh tissue, EDTA whole blood (LTT), stool, swab, depending on which organisms are being tested

## TOXICOLOGY

### Blood Lead (Cornell Univ.)

TAT: 5-9 days

● 0.5 mL LTT

## THERAPEUTIC DRUG MONITORING/ PHARMACOLOGY

### Digoxin (Auburn Univ.)

TAT: 2-5 days

● 0.5 mL serum in RTT, no SST

### Zonisamide (Auburn Univ.)

TAT: 2-5 days

● 0.5 mL serum in RTT, no SST

### Levetiracetam (Auburn Univ.)

TAT: 3-14 days

● 0.5 mL serum in RTT, no SST

## HEMATOLOGY

### Direct Coombs

TAT: 1-2 days

● 2 mL EDTA whole blood (LTT)

### Hemostasis Panel (Cornell Univ.)

TAT: 2-5 days

● BTT filled according to tube manufacturer and shipped refrigerated  
PTT, PT, TCT, vWF:Ag

### DIC Panel (Cornell Univ.)

TAT: 2-5 days

● BTT filled according to tube manufacturer and shipped refrigerated  
PT, PTT, Fibrinogen, Antithrombin, D-dimer

### Von Willebrand Antigen (Cornell Univ.)

TAT: 3-6 days

1 mL separated citrated plasma or 1 mL EDTA plasma

### Flow Cytometry (Colo. State Univ.)

TAT: 2-6 days

May be performed on blood, bone marrow, cavity fluid, or tissue aspirate  
For blood or bone marrow: 1 mL in EDTA (LTT). Must have CBC within  
previous 48 hours; please submit results with sample.

For cavity fluid: 0.5 mL in LTT **and** RTT (2 tubes)

For tissue aspirate: Contact Customer Service for submission instructions.

### Fibrinogen

TAT: Same day received or 8 a.m. next day

● BTT filled according to tube manufacturer

## HISTOPATHOLOGY

### Necropsy

## CLONALITY

### Lymphoma PCR/PARR (Colo. State Univ.)

TAT: 5-7 days

May be performed on blood, bone marrow, cavity fluid, or tissue aspirate

For blood or bone marrow: 1 mL in EDTA (LTT)

For cavity fluid: 1 mL in EDTA or cytology preparation (slides)

For tissue aspirate: Aspirate into EDTA or submit cytology preparation (slides)

For CSF: Multiple cytopsin preps recommended

## GI/PANCREATIC TESTING

### Occult Blood

TAT: Same day received or 8 a.m. next day

1-3 gm of fresh feces

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### Ordering from our Avian Routine Menu

- Create your own bundle by picking any 2 or more Routine Tests per accession. Bundle pricing applies.
- Order Single Test for just 1 Routine Test per accession.

TAT: TURNAROUND TIME M-SST ■: MICRO SERUM SEPARATOR

M-RTT ■: MICRO SERUM (NO GEL) M-LTT ■: MICRO EDTA M-GRNTT ■: MICRO HEPARIN

For m-GRNTT lithium heparin is preferred. Sodium heparin will interfere with electrolyte values.

### CHEMISTRY

#### Avian/Exotics ClinChem 18

TAT: Same day or next day

■ ■ 0.3 mL serum or heparinized plasma; 0.6 mL heparinized whole blood in m-GrnTT also accepted

Glucose, Sodium, Potassium, Chloride, BUN, Calcium, Phosphorus, Calcium:Phosphorus Ratio, Total Protein, Albumin, Globulin, Albumin:Globulin Ratio, AST, GGT, Cholesterol, CK, Uric Acid, Bile Acids

#### Avian/Reptile Liver ClinChem 8

TAT: Same day or next day

■ ■ 0.15 mL serum or heparinized plasma; 0.4 mL heparinized whole blood in m-GrnTT also accepted

Total Protein, Albumin, Globulin, Albumin:Globulin Ratio, AST, GGT, CK, Bile Acids

#### Reptile Renal ClinChem 4

TAT: Same day or next day

■ ■ 0.15 mL serum or heparinized plasma; 0.4 mL heparinized whole blood in m-GrnTT also accepted

Calcium, Phosphorus, Calcium:Phosphorus Ratio, Uric Acid

#### Avian Renal ClinChem 5

TAT: Same day or next day

■ ■ 0.15 mL serum or heparinized plasma; 0.4 mL heparinized whole blood in m-GrnTT also accepted

BUN, Calcium, Phosphorus, Calcium:Phosphorus Ratio, Uric Acid

#### Small Mammal ClinChem 12

TAT: Same day or next day

■ ■ 0.3 mL serum or heparinized plasma; 0.6 mL heparinized whole blood in m-GrnTT also accepted

Glucose, BUN, Creatinine, Calcium, Phosphorus, Calcium:Phosphorus Ratio, Total Protein, Albumin, Globulin, Albumin:Globulin Ratio, AST, ALT

### HEMATOLOGY

#### Avian/Nonmammalian Comprehensive CBC

TAT: 1-3 days

■ ■ Air-dried peripheral blood smears **and** 0.25 mL whole blood, m-LTT/m-GrnTT.

WBC estimate, WBC differential, PCV (if whole blood or hematocrit tubes provided), and technician review. If indicated, will include a pathologist review.

### SINGLE TESTS

#### Avian/Nonmammalian Comprehensive CBC

TAT: Same day or next day

■ ■ 0.1 mL serum or heparinized plasma; 0.25 mL heparinized whole blood also accepted

### MICROBIOLOGY

#### Aerobic C&S

TAT: 3-5 days

Culturette or fluid/tissue in CTT or sterile tube

#### Aerobic C&S with Anaerobic ID (Mich. State Univ.)

TAT: 4-7 days

Culturette or fluid/tissue in CTT or sterile tube

#### Acid Fast Stain

TAT: 1-4 days

Culturette, tissue, feces, mucosal scraping, or aspirate **or** air-dried slides prepared with a thin film of one of the above.

#### Modified Acid Fast Stain

TAT: 1-4 days

1 gm feces

For the detection of *Cryptosporidium* species in avians and reptiles

### SINGLE TESTS

#### Protein Electrophoresis

TAT: 1-4 days

■ ■ 0.25 mL Serum in SST or RTT **or** 0.25 mL heparinized plasma **or** 3 mL urine

#### Giardia/Cryptosporidium IFA

TAT: 1-4 days

3-5 gm fresh feces

Not recommended for avians or reptiles.

#### Avian/Reptile Giardia/Cryptosporidium Screen

TAT: 1-4 days

3-5 gm fresh feces

**LOGISTICS** Transportation fees are \$7 per package shipped or per courier pickup, regardless of number of samples shipped.

For any questions or to order,  
please call 1-888-965-9652

### Ordering from our Equine Routine Menu

- Choose our Easy Bundle
- Customize the Easy Bundle by adding on with any Routine Tests. Bundle pricing applies per accession.
- Create your own bundle by picking any 2 or more Routine Tests per accession. Bundle pricing applies.
- Order Single Test for just 1 Routine Test per accession.

TAT: TURNAROUND TIME SST ●: SERUM SEPARATOR RTT ●: SERUM (NO GEL)  
LTT ●: EDTA BTT ●: SODIUM CITRATE GRNTT ●: HEPARIN

### CHEMISTRY

#### Equine ClinChem 18

TAT: Same day received or next day

●● 0.5 mL serum in SST or RTT

Glucose, Sodium, Potassium, Sodium:Potassium Ratio, Chloride, BUN, Creatinine, BUN:Creatinine Ratio, Calcium, Magnesium, Total Protein, Albumin, Globulin, Albumin:Globulin Ratio, AST, GGT, Total Bilirubin, CK

#### Equine ClinChem 24

TAT: Same day received or next day

●● 1 mL serum in SST or RTT

Equine ClinChem 18 + CO<sub>2</sub>, Anion Gap, Phosphorus, SDH, ALP, and Cholesterol

### HEMATOLOGY

#### Equine CBC (non-geriatric, healthy)

TAT: Same day received or next day

● 2 mL LTT, air dried slides

RBC, hematocrit, hemoglobin, MCV, MCHC, CHCM, RDW, WBC, WBC differential, platelet count, MPV, plasma protein, fibrinogen, and plasma protein:fibrinogen ratio. If indicated, will include a PCV and/or manual differential.

#### Equine Comprehensive CBC (geriatric, sick)

TAT: Same day received or next day. Path review may extend turnaround time to end of day.

● 2 mL LTT, air dried slides

Equine CBC with blood smear review by technician.

If indicated, will include a PCV, manual differential, and/or pathologist review.

### EQUINE ENDOCRINOLOGY TESTING

#### Total T4

TAT: Same day received or next day

●● 0.5 mL serum in SST or RTT

#### Free T4

TAT: Same day received or next day

●● 0.5 mL serum in SST or RTT

#### Cortisol

TAT: Same day received or next day

● 0.5 mL serum in RTT

### Easy Bundles

#### Equine Wellness

Equine ClinChem 24, Equine CBC

### URINALYSIS

#### Urinalysis

TAT: Same day received or next day

2 mL urine

Color, Clarity, Specific Gravity, Glucose, Bilirubin, Ketones, Blood, pH, Protein, Microscopic (sediment) examination

### FECAL TESTING

#### Large Animal Ova and Parasite

TAT: Same day received or next day

5 gm fresh feces

Fecal centrifugation and microscopic examination

#### Large Animal Ova and Parasite, McMaster's Egg Count

TAT: Same day received or next day

5 gm fresh feces

Fecal centrifugation and microscopic examination with quantitative egg counts

### EQUINE CUSHING'S PANELS

#### Endogenous ACTH

TAT: 1-4 days

● 1 mL EDTA plasma, separated from cells within 4 hours and shipped frozen

#### Equine Cushing's Panel

TAT: 1-4 days

●●● 1 mL EDTA plasma, separated from cells within 4 hours and shipped frozen; **and** 1 mL serum in SST or RTT

Endogenous ACTH, Insulin, Glucose

#### Equine Cushing's/Metabolic Panel (Cornell Univ.)

TAT: 3-5 days

● 1.5 mL EDTA plasma in lavender top tube, separated from cells and transferred to plastic tube or plain red top tube. Plasma should be frozen within 4 hours of obtaining sample.

Endogenous ACTH, Insulin, Glucose and Leptin

**LOGISTICS** Transportation fees are \$7 per package shipped or per courier pickup, regardless of number of samples shipped.



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TAT: TURNAROUND TIME SST ○: SERUM SEPARATOR RTT ●: SERUM (NO GEL)  
LTT ●: EDTA BTT ●: SODIUM CITRATE GRNTT ●: HEPARIN

## EQUINE ENDOCRINOLOGY TESTING

### Equine Testosterone (UC Davis)

TAT: 5 days

●● 1 mL serum in SST or RTT

### Progesterone

TAT: Same day received or 8 a.m. next day

● 0.5 mL serum in RTT

### Equine Thyroid

TAT: 1-4 days

●● 1.5 mL serum in SST or RTT

T4, T3, Free T4

### Equine Cortisol, AM/PM

TAT: 1-4 days

●● 2 mL serum in SST or RTT. **2 samples** needed for testing. Please clearly label tubes with collection times.

### EPM IFAT (Sarcofluor & Neofluor) (UC Davis)

TAT: 7-12 days

● 2 mL serum, separated from cells and sent in RTT; OR 2 mL CSF, collected in RTT with no anticoagulant. Do not spin CSF.

### NeoFluor by IFAT (UC Davis)

TAT: 7-12 days

● 2 mL serum, separated from cells and sent in RTT; **or** 2 mL CSF, collected in RTT with no anticoagulant. Do not spin CSF.

### SarcoFluor by IFAT (UC Davis)

TAT: 7-12 days

● 2 mL serum, separated from cells and sent in RTT; **or** 2 mL CSF, collected in RTT with no anticoagulant. Do not spin CSF.

### Equine Insulin/Glucose

TAT: 1-4 days

●● 2 mL serum in SST or RTT

## MICROBIOLOGY

### Equine Uterine Culture (ID Only)

TAT: 2-3 days

Culturette

### Aerobic C&S

TAT: 2-3 days

Culturette or fluid/tissue in CTT or sterile tube

### Aerobic C&S and Anaerobic ID

TAT: 5 days

Culturette or fluid/tissue in CTT or sterile tube

## DRUG SCREENING

### Fibrocoxib (Equine Center for Tox Service)

TAT: 7-10 days

6 mL plasma or serum

### NSAIDS w/Tranquilizers (Equine Center for Tox Service)

TAT: 7-10 days

6 mL plasma or serum

## INDIVIDUAL TESTS

### Coggins AGID

TAT: 2-5 days

●● 1 mL serum in SST or RTT

A completed USDA form is required for all Coggins submissions, either electronically or with an approved USDA paper form

### Coggins ELISA

TAT: 1-4 days

●● 1 mL serum in SST or RTT

A completed USDA form is required for all Coggins submissions, either electronically or with an approved USDA paper form

### Equine Allergy Panel (Spectrum Vet)

TAT: 10-14 days

●● 2 mL serum in SST or RTT

### Equine GI/Diarrhea PCR Panel (UC Davis)

TAT: 3-5 days

1 gm feces

Equine coronavirus, *Clostridium difficile* toxins A and B, *Lawsonia intracellularis*, *Neorickettsia risticii*, *Salmonella* spp

### Equine Lyme Disease Multiplex (Cornell Univ.)

TAT: 6-8 days

●● 2 mL serum in SST or RTT

### Equine Neurologic PCR Panel (UC Davis)

TAT: 2-3 days

CSF or tissue from CNS

Equine herpesvirus 1 (quantitative load and genotype), *Borrelia burgdorferi*, West Nile virus, *Sarcocystis neurona*, *Neospora hughesi/caninum*

### Equine Respiratory PCR Panel (UC Davis)

TAT: 2-3 days

Nasal swab or respiratory wash samples

Equine herpesvirus 1 (quantitative load and genotype), equine influenza A (H3N8), equine herpesvirus 4, *Streptococcus equi subsp equi*, equine rhinitis A virus, and equine rhinitis B virus

### Equine Viral Arteritis (California Health and Food Safety)

TAT: 5-9 days

●● 1 mL serum in SST or RTT

### Strep equi ELISA (Equine Diagnostics Solution)

TAT: 5-7 days

● 1 mL serum in RTT

### Foal IgG

TAT: 1-3 days. Preliminary reported at 4 hours after set up. Final results at 24 hours after set up.

●● 2 mL serum in SST or RTT

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Don't see a test you need? Visit [zoetisreflabs.com](http://zoetisreflabs.com) to see our full directory of tests or call us at 888.965.9652 for our full menu.