MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

ANTIGEN DETECTION

Code	Test	Requirements	Notes
310	**MVista®** *Histoplasma* Antigen EIA	**Specimen:** Urine, serum, plasma, CSF, BAL **Anticoagulant:** Heparin, EDTA, NaCit **Container:** Serum/plasma in separator or transfer tube. Urine, CSF, and BAL in a leak-proof container. **Volume:** 0.8 mL	**Cross Reactivity/False Positive:** • Very High: *Blastomyces, Histoplasma, Paracoccidioides,* and *Talaromyces* (talaromycosis, previously penicilliosis) • Moderate: *Coccidioides* • Rare: *Aspergillus* • None: *Cryptococcus* **Stability:** • Histo: 2 weeks RT/RF, Indefinitely FZ • Blasto: 2 weeks RT/RF, 60 days FZ • Cocci: 28 days RT/RF, 60 days FZ **Shipping:** Overnight or 2nd day – ambient **Turnaround Time:** Blasto: 8-24 hours, Histo/Cocci: 12-24 hours
316	**MVista®** *Blastomyces* Antigen EIA		
315	**MVista®** *Coccidioides* Antigen EIA		
309	*Aspergillus* Antigen EIA	**Specimen:** Urine, serum, CSF, BAL **Container:** Serum in separator or transfer tube. Urine, CSF, and BAL in a leak-proof container. **Volume**: 0.4 mL	**Cross Reactivity/False Positive:** • Certain gluconate containing fluids (Vetivex pHLyte; NOT Plasmalyte or Norm-R) • Potentially penicillin antibiotics • High: *Alternaria*, *Fusarium*, *Geotrichum*, *Paecilomyces* • Low: *Coccidioides, Cryptococcus, Blastomyces, Histoplasma* **Stability Urine/Serum/BAL:** RT=48 hours, RF=5 days, FZ=5 months **Stability CSF:** RT=30 days, RF=30 days, FZ=60 days **Shipping:** Overnight or 2nd day – with cold pack **Turnaround Time:** 12-24 hours
317	(1,3)-Beta-D-Glucan (Fungitell®)	**Specimen:** Serum **Uncommon Specimen:** CSF **Container:** Serum in separator or sterile plastic tube. CSF in a leak-proof, sterile plastic tube. **Volume:** 0.25 mL	**Interfering Substance:** Turbid or grossly discolored samples due to lipid, bilirubin, or hemolysis. Significantly elevated immunoglobulin concentrations. **Cross Reactivity/False Positive:** • Hemodialysis • Penicillin antibiotics • Fractionated blood products (serum albumin and immunoglobulins) • Specimens exposed to gauze or paper wipes **Stability:** RF=15 days, FZ=27 days **Shipping:** Overnight – with cold pack **Turnaround Time:** 12-24 hours
319	*Cryptococcus* Antigen Latex Agglutination	**Specimen:** Serum, CSF **Container:** Serum in separator or transfer tube. CSF in leak-proof container. **Volume:** 0.25 mL	**Interfering Substance:** Severely elevated immunoglobulin concentrations such as seen with multiple myeloma. **Cross Reactivity/False Positive:** Low: *Trichosporon* (trichosporonosis) **Stability:** RT=7 days, RF=2 months, FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 12-24 hours

MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

ANTIBODY DETECTION

Code	Test	Requirements	Notes
320	*Coccidioides* Antibody by Immunodiffusion	**Specimen:** Serum **Uncommon Specimen:** CSF, plasma **Container:** Separator or transfer tube **Volume:** 0.25 mL	**Cross Reactivity/False Positive:** Moderate to Low: *Blastomyces, Histoplasma, Coccidioides,* and *Aspergillus* **Stability:** RT=28 days, RF=6 months, FZ=indefinite **Shipping:** Overnight - with cold pack **Turnaround Time:** 48 hours from set up
321	*Histoplasma* Antibody by Immunodiffusion		
322	*Blastomyces* Antibody by Immunodiffusion		
324	*Aspergillus* Antibody by Immunodiffusion		
327	**MVista®** *Histoplasma* Canine IgG Antibody EIA	**Specimen:** Serum **Uncommon Specimen:** CSF, plasma **Anticoagulant:** Heparin, EDTA, NaCit **Container:** Separator or transfer tube **Volume:** 0.25 mL	**Cross-reactivity/False Positives**: Low: *Histoplasma*, *Blastomyces*, and *Coccidioides* (true positives are considerably higher than cross-reactive results) **Stability:** RT=28 days, RF=6 months, FZ=indefinite **Shipping:** Overnight or 2nd day - ambient or with cold pack **Turnaround Time:** 24-48 hours
328	**MVista®** *Histoplasma* Feline IgG Antibody EIA		
329	**MVista®** *Coccidioides* Canine IgG Antibody EIA		
330	**MVista®** *Blastomyces* Canine IgG Antibody EIA		
332	**MVista®** *Pythium* IgG Antibody EIA Canine and Feline	**Specimen:** Serum, plasma **Anticoagulant:** Heparin, EDTA, NaCit **Container:** Separator or transfer tube **Volume:** 0.25 mL	**Stability:** RT=30 days, RF=30 days, FZ=30 days **Shipping:** Overnight or 2nd day - ambient or with cold pack **Turnaround Time:** 12-24 hours

THERAPEUTIC DRUG MONITORING

Code	Test	Requirements	Notes
312	**MVista®** Itraconazole Bioassay	**Specimen:** Serum **Uncommon Specimen:** CSF **Container:** Separator or transfer tube **Volume:** 0.25 mL	**Interfering Substance:** Other antifungals can cause falsely high results. Stop these at least 1 week before obtaining sample. **Stability:** RT= 10 days, RF= 10 days, FZ= Indefinite **Shipping:** Overnight or 2nd day – with cold pack **Turnaround Time:** Reported on Thursdays *Drug levels should be measured after steady-state (at least 2 weeks in dogs & 3 weeks in cats). It is recommended, but not required (due to long half-life), to collect blood sample at trough time (as close to next dose as possible).*

MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

MOLECULAR DETECTION

Code	Test	Requirements	Notes
403	**MVista®** *Histoplasma* DNA, PCR	**Specimen:** BAL, Cavitary Effusion, or CSF **Uncommon Specimen:** Tracheal aspirate or bronch wash **Container:** Transfer tube **Volume:** 0.5 mL	**Cross Reactivity/False Negative:** Fluconazole may interfere with assay sensitivity. Patients being treated with this medication may produce false negative results. **Stability BAL:** RT=30 days, RF=30 days, FZ=30 days **Stability CSF:** RF = 5 days, FZ = 30 days **Shipping:** Samples may be shipped on dry ice or frozen ice packs. **Turnaround Time:** 24-48 hours
404	**MVista®** *Blastomyces* DNA, PCR	**Specimen:** BAL, Cavitary Effusion, or CSF **Uncommon Specimen:** Tracheal aspirate or bronch wash **Container:** Transfer tube **Volume:** 0.5 mL	**Cross Reactivity/False Positive:** Piperacillin may interfere with assay specificity. Patients being treated with this medication may produce false positive results. **Stability BAL:** RT=30 days, RF=30 days, FZ=30 days **Stability CSF:** RF = 5 days, FZ = 30 days **Shipping:** Samples may be shipped on dry ice or frozen ice packs. **Turnaround Time:** 24-48 hours
405	**MVista®** *Coccidioides* DNA, PCR	**Specimen:** BAL, Cavitary Effusion, or CSF **Uncommon Specimen:** Tracheal aspirate or bronch wash **Container:** Transfer tube **Volume:** 0.5 mL	**Stability BAL:** RT=30 days, RF=30 days, FZ=30 days **Stability CSF:** RF = 5 days, FZ = 30 days **Shipping:** Samples may be shipped on dry ice or frozen ice packs. **Turnaround Time:** 24-48 hours
406	**MVista®** *Pneumocystis* Canine DNA, PCR	**Specimen:** BAL or Cavitary Effusion **Uncommon Specimen:** Tracheal aspirate or bronch wash **Container:** Transfer tube **Volume:** 0.5 mL	**Stability:** RT=21 days, RF=21 days, FZ=30 days **Shipping** Samples may be shipped on dry ice, frozen ice packs, or ambient. **Turnaround Time:** 24-48 hours

PANELS

Code	Test	Requirements	Notes
900	**MVista®** Feline Fungal Panel, Extended	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 1 mL of each urine and serum	**Included Tests and Samples[#1]:** Histo 310 (UR); Crypto 319 (SER); Cocci 320 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
901	**MVista®** Canine Fungal Panel West^, Extended	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 1 mL of each urine and serum	**Included Tests and Samples[#1]:** Histo 310 (UR); Cocci 329 (SER); Asper 309 (SER); Crypto 319 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-2 days
902	**MVista®** Canine Fungal Panel East^, Extended	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 1 mL of each urine and serum	**Included Tests and Samples[#1]:** Blasto 316 (UR); Cocci 329 (SER); Asper 309 (SER); Crypto 319 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-2 days
903	**MVista®** Feline Fungal Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL each of urine and serum	**Included Tests and Samples[#1]:** Histo 310 (UR); Crypto 319 (SER); Cocci 320 (SER) **Stability:** RT=2 weeks urine, 7 days serum; RF=2 weeks; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days

MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

904	**MVista®** Canine Fungal Panel West^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Cocci 329 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-2 days
905	**MVista®** Canine Fungal Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Blasto 316 (UR); Crypto 319 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-2 days
906	**MVista®** Pulmonary Fungal PCR Panel	**Specimen:** BAL or Cavitary Effusion **Uncommon Specimen:** Tracheal aspirate or bronch wash **Container:** Transfer tube **Volume:** 0.5 mL	**Included Tests:** Histo 403, Blasto 404, Cocci 405, Pneumo 406 **Stability:** RT=21 days, RF=21 days, FZ=30 days **Shipping:** Samples may be shipped on dry ice or frozen ice packs. **Turnaround Time:** 24-48 hours
907	**MVista®** Feline Fungal Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Crypto 319 (SER); Histo 310 (UR); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
908	**MVista®** Canine Fungal Panel, Comprehensive	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 1.75 mL of serum	**Included Tests and Samples#1:** Blasto 316 (UR); Asper 309 (SER); Crypto 319 (SER); Cocci 329 (SER); Histo 327 (SER); Blasto 330 (SER); Cocci 320 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
909	**MVista®** Feline Fungal Panel, Comprehensive	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 1.25 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Asper 309 (SER); Crypto 319 (SER); Histo 328 (SER); Cocci 320 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
910	**MVista®** Canine Blastomycosis Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Blasto 316 (UR); Blasto 330 (SER) **Stability:** RT=2 weeks urine, 2 weeks serum; RF=2 weeks urine, 2 weeks serum; FZ=2 months urine, indefinite serum **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
911	**MVista®** Canine Histoplasmosis Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Histo 327 (SER) **Stability:** RT=2 weeks urine, 2 weeks serum; RF=2 weeks urine, 2 weeks serum; FZ=indefinite **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
912	**MVista®** Canine Coccidioidomycosis Panel	**Specimen:** Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL of serum	**Included Tests and Samples#1:** Cocci 329 (SER); Cocci 320 (SER) **Stability:** RT= 28 days; RF=6 months; FZ=indefinite **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days

MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

913	**MVista®** Feline Histoplasmosis Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Histo 310(UR); Histo 328(SER) **Stability:** RT=2 weeks urine, 2 weeks serum; RF=2 weeks urine, 2 weeks serum; FZ=indefinite **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
914	**MVista®** Canine & Feline Mold-Hyphae Panel	**Specimen:** Serum **Container:** Separator or transfer tube **Volume:** 1 mL of serum	**Included Tests and Samples#1:** Asper 309 (SER); Beta-D-Glucan 317 (SER); Pythium 332 (SER) **Stability:** RF= 5 days; FZ= 1 month **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
915	**MVista®** Canine & Feline Fungal Nasal Panel	**Specimen:** Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL of serum	**Included Tests and Samples#1:** Crypto 319 (SER); Asper 324 (SER) **Stability:** RT=7 days; RF=28 days; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
916	**MVista®** Canine Fungal GI Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Histo 327 (SER); Pythium 332 (SER) **Stability:** RT=2 weeks urine, 28 days serum; RF=2 weeks urine, 30 days serum; FZ= 30 days **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
917	**MVista®** Feline Fungal GI Panel	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Histo 310(UR); Histo 328(SER); Pythium 332(SER) **Stability:** RT=2 weeks urine, 28 days serum; RF=2 weeks urine, 30 days serum; FZ= 30 days **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
918	**MVista®** Canine Fungal Bone Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Blasto 316 (UR); Blasto 330 (SER); Histo 327 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
919	**MVista®** Canine Fungal Bone Panel West^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Cocci 329 (SER); Histo 327 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
920	**MVista®** Feline Fungal Bone Panel West^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Cocci 320 (SER); Histo 328 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
921	**MVista®** Feline Fungal Bone Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.5 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Histo 328 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=5 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
922	**MVista®** Canine Fungal Eye Panel West^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 1 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Cocci 329 (SER); Histo 327 (SER); Asper 309 (SER); Crypto 319 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days

MiraVista VETERINARY DIAGNOSTICS

Veterinary Test Menu

923	**MVista®** Canine Fungal Eye Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 1 mL of serum	**Included Tests and Samples#1:** Blasto 316 (UR); Blasto 330 (SER); Histo 327 (SER); Asper 309 (SER); Crypto 319 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
924	**MVista®** Feline Fungal Eye Panel West^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 1 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Cocci 320 (SER); Crypto 319 (SER); Histo 328 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days
925	**MVista®** Feline Fungal Eye Panel East^	**Specimen:** Urine and Serum **Container:** Separator or transfer tube **Volume:** 0.5 mL urine and 0.75 mL of serum	**Included Tests and Samples#1:** Histo 310 (UR); Histo 328 (SER); Crypto 319 (SER); Asper 309 (SER) **Stability:** RT=2 weeks urine, 2 days serum; RF=2 weeks urine, 5 days serum; FZ=2 months **Shipping:** Overnight or 2nd day – ambient or with cold pack **Turnaround Time:** 1-6 days

Additional Information:

Patient's identification must be visible on the specimen container.
Specimens with particulate matter or viscosity that do not allow the specimen to be pipetted will be rejected.
Test Set-up: Samples received by 10:30 AM are eligible for same-day testing. Same-day testing is not guaranteed and may vary based on daily test volume, sample receipt time, testing schedules, and sample type. Some samples may require pretreatment and/or confirmatory testing, which can extend TAT.
#Disclaimer There is high cross-reactivity between Histo 310 & Blasto 316 so these are not included in the same panel.
1Disclaimer Secondary sample type will be used if insufficient volume of primary sample type.
^West = All states and Canada West of the Rockies also including TX, OK, KS, NE. **East** = all remaining states and Canada East of the Rockies.

ABBREVIATIONS

TAT: Turnaround time
BAL: Bronchial Lavage
CSF: Cerebral Spinal Fluid
RF: Refrigerated
FZ: Frozen
RT: Room Temperature, Ambient
EIA: Enzyme Immunoassay