

<i>Test Name</i>	<i>Description</i>
CANINE COMPREHENSIVE PROFILE	<i>Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus</i>
	<i>Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.</i>
	<i>Detection of antibodies to Babesia gibsoni, Babesia canis vogeli, Bartonella vinsonii subsp. berkhoffi, Bartonella henselae, Bartonella koehlerae, Ehrlichia canis, and Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)</i>
	Specimen(s): 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.
	Species: Canine Price: \$192.50**
CANINE SEROLOGY PROFILE	<i>Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus</i>
	<i>Detection of antibodies to Babesia gibsoni, Babesia canis vogeli, Bartonella vinsonii subsp. berkhoffi, Bartonella henselae, Bartonella koehlerae, Ehrlichia canis, and Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)</i>
	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD
	Species: Canine Price: \$102.50**
CANINE LEISHMANIA PROFILE	<i>Detection of Leishmania by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: L. infantum, L. donovoni, L. mexicana, among other Leishmania species.</i>
	<i>Detection of antibodies to Leishmania infantum by indirect immunofluorescent antibody test (IFA)</i>
	Specimen(s): 1-2mL EDTA Whole Blood* AND 1-2mL Serum. Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue
	Species: Canine Price: \$70.00**
	*Preferred sample type is EDTA Whole Blood enriched with peripheral lymph node aspirate. For suspected cases of cutaneous leishmaniasis skin scrapes or biopsies from skin lesions are also good tissues to provide for testing
CANINE PCR PANEL	<i>Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.</i>
	Specimen: 1-2mL EDTA Whole Blood, 1-2mL Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.
	Species: Canine Price: \$127.50**
CANINE BABESIA SEROLOGY	<i>Detection of antibodies to Babesia gibsoni and Babesia canis vogeli by indirect immunofluorescent antibody test (IFA)</i>
	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD
	Species: Canine Price: \$42.50**

**There is an additional \$2.50 laboratory record fee applied to each order

CANINE BARTONELLA SEROLOGY	<i>Detection of antibodies to Bartonella vinsonii subsp. berkhoffi, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</i>	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD	Species: Canine Price: \$52.50**
CANINE EHRLICHIA SEROLOGY	<i>Detection of antibodies to Ehrlichia canis by indirect immunofluorescent antibody test (IFA)</i>	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD	Species: Canine Price: \$22.50**
CANINE LEISHMANIA SEROLOGY	<i>Detection of antibodies to Leishmania infantum by indirect immunofluorescent antibody test (IFA)</i>	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD	Species: Canine Price: \$22.50**
CANINE RICKETTSIA SEROLOGY	<i>Detection of antibodies to Rickettsia rickettsii by indirect immunofluorescent antibody test (IFA)</i>	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD	Species: Canine Price: \$22.50**
FELINE COMPREHENSIVE PROFILE	<p><i>Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP@4Dx@ Plus*</i></p> <p><i>Detection of Babesia, Cytauxzoon (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.</i></p> <p><i>Detection of antibodies to Bartonella vinsonii, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</i></p>	Specimen(s): 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.	Species: Feline Price: \$187.50**
FELINE BARTONELLA SEROLOGY	<i>Detection of antibodies to Bartonella vinsonii subsp.berkhoffi, Bartonella henselae, and Bartonella koehlerae by indirect immunofluorescent antibody test (IFA)</i>	Specimen: 1-2mL Serum; EDTA Whole Blood sample can be submitted for HOLD	Species: Feline Price: \$52.50**

**There is an additional \$2.50 laboratory record fee applied to each order

FELINE PCR PANEL

Detection of Babesia, Cytauxzoon (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

Specimen: 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA

Species: Feline
Price: \$127.50**

EQUINE PROFILE

*Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus**

Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Neorickettsia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

Specimen(s): 1-2mL EDTA Whole Blood AND 1-2mL Serum; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Equine
Price: \$127.50**

*SNAP®4DX®plus test kit is designed to detect antibodies seroreactive to tick-borne diseases and uses a conjugate that is not species-specific (e.g. can bind to antibodies from animals other than dogs); however, it is licensed only for use in dogs. Several studies report using feline and equine sera with SNAP®4DX®plus to detect seroreactivity to *Anaplasma* spp, *Ehrlichia* spp, and *Borrelia burgdorferi* peptides. Clinicians who choose to use tests not licensed for use in a particular animal, should do so with the understanding that the sera may not consistently react with small peptides validated for canine seroreactivity, potentially generating inaccurate results.

RUMINANT PCR PANEL

Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

Specimen: 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Ruminant (cow, sheep, goat, buffalo, deer, elk, giraffe, camel, etc.)
Price: \$127.50**

EXOTIC PCR PANEL

Detection of Babesia (and other Apicomplexan pathogens), Bartonella, Anaplasma, Ehrlichia, Rickettsia, and Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing.

Specimen: 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood

Species: Large (Non-Ruminant) or Small Animal Exotics
Price: \$127.50**

**ANAPLASMA/
EHRLICHIA PCR**

Detection of Anaplasma and Ehrlichia spp. by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Anaplasma phagocytophilum, Anaplasma platys, Ehrlichia canis, Ehrlichia chaffeensis, Ehrlichia ewingii, and Panola Mtn. Ehrlichia, among other Anaplasma/Ehrlichia species.

Specimen: 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any
Price: \$47.50**

BABESIA PCR

Detection of Babesia by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Babesia gibsoni, Babesia canis vogeli, Babesia coco, Babesia vulpes, and Babesia conradae, among other Babesia species. - This testing also includes broader testing that can detect other Apicomplexan pathogens such as Thileria, Cytauxzoon, etc.

Specimen: 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any
Price: \$47.50**

BARTONELLA PCR

Detection of Bartonella by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Bartonella henselae, Bartonella vinsonii, Bartonella clarridgeiae, Bartonella koehlerae, and Bartonella rochalimae, among other Bartonella species.

Specimen: 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any
Price: \$47.50**

CYTAUXZOOM PCR

Detection of Cytauxzoon felis by real time PCR. This testing also includes broader testing that can detect other Apicomplexan pathogens such as Babesia felis, Novel Feline Babesia, etc.

Specimen: 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any*
Price: \$47.50**

*Cytauxzoon PCR can be performed on any species of animal, but *C. felis* is typically found in domestic cats, bobcats, and other felids

**HEMOTROPIC
MYCOPLASMA PCR**

Detection of Hemotropic Mycoplasma by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Mycoplasma haemofelis, Mycoplasma haemocanis, Mycoplasma haemominutum, Mycoplasma haematoparvum, and Mycoplasma turicensis among other Hemotropic Mycoplasma species.

Specimen: 1-2mL EDTA Whole Blood. Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any
Price: \$47.50**

**There is an additional \$2.50 laboratory record fee applied to each order

LEISHMANIA PCR

Detection of Leishmania by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: L. infantum, L. donovoni, L. mexicana, among other Leishmania species.

Specimen: 1-2mL EDTA Whole Blood*, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

***Preferred sample type is EDTA Whole Blood enriched with peripheral LNA. For suspected cases of cutaneous leishmaniasis skin scrapes or biopsies from skin lesions can also be good tissues to provide for testing.**

Species: Any
Price: \$47.50**

RICKETTSIA PCR

Detection of Rickettsii by real time PCR. Samples are tested on a genus level, then species identification is performed by species-specific PCR and/or amplicon sequencing. Detection includes, but is not limited to: Rickettsia rickettsii, Rickettsia felis, Rickettsia typhi, among other spotted fever group and typhus group rickettsias

Specimen: 1-2mL EDTA Whole Blood, Serum sample can be submitted for HOLD; Fresh or FFPE tissue samples, and other specimen types can be submitted for PCR portion of testing, in lieu of EDTA whole blood. There is an additional fee of \$75.00 for manual DNA extraction from tissue.

Species: Any
Price: \$47.50**

SNAP4Dx PLUS

Detection of Anaplasma (ab), Ehrlichia (ab), Lyme (ab), and Heartworm (antigen) by SNAP®4Dx® Plus

Specimen: 1 mL Serum; (EDTA Whole Blood or Plasma can be used as an alternate sample source)

Species: Canine*
Price: \$17.50**

*SNAP®4DX®plus test kit is designed to detect antibodies seroreactive to tick-borne diseases and uses a conjugate that is not species-specific (e.g. can bind to antibodies from animals other than dogs); however, it is licensed only for use in dogs. Several studies report using feline and equine sera with SNAP®4DX®plus to detect seroreactivity to Anaplasma spp, Ehrlichia spp, and Borrelia burgdorferi peptides. Clinicians who choose to use tests not licensed for use in a particular animal, should do so with the understanding that the sera may not consistently react with small peptides validated for canine seroreactivity, potentially generating inaccurate results.

ADD-ON STAT PCR FEE

Add-on fee for STAT PCR for an individual PCR test or part of a panel or profile. Results are returned within 2 working days and result receipt is confirmed by phone. There is a \$50 fee for each individual PCR run as a STAT

Price: \$50.00 per Test

ADD-ON TISSUE EXTRACTION FEE

Add-on fee for processing of fresh, frozen, or parafin fixed tissues for manual DNA extraction. In cases where multiple sample types are pooled together and treated as a single sample then only one tissue extraction fee is needed.

Price: \$75.00 per Sample

ADD-ON PAIRED CONVALESCENT TITER FEE

Add-on fee for running paired acute and convalescent titers. The original acute sample is located and rerun alongside the newly-submitted sample. Running the acute and convalescent titers together provides a more accurate result comparison. There is a \$20 fee for each IFA test run as a paired acute/convalescent titer

Price: \$20.00 per Test

**There is an additional \$2.50 laboratory record fee applied to each order