

Fry Laboratories, LLC – Test Descriptions

Stained Smear Blood Tests:

Stained Smear MMG (87207): This test is a Modified May-Grünwald stain developed by our lab to detect blood borne infections. A photograph and a report will be generated of the laboratory's findings.

Traditional Giemsa (87205): This smear is used to confirm blood borne infections found on the Stained Smear using a thin and thick smear preparation.

Advanced Stains:

Fluorescent DNA Stain (87206): This cutting edge test is not available anywhere else and uses highly specific DNA dyes to aid in visualizing infections and blood-borne biofilm communities. A photograph and a report will be generated of the laboratory's findings.

Organismal Enrichment (87205): This test utilizes an enrichment protocol to produce higher yield of detectable parasitic infections and biofilm structures.

Serology Tests:

ANA (86038): This test is used to determine the presence of autoimmune disease by detecting circulating auto antibodies.

Babesia microti IgG & IgM (86753): Both IgG and IgM antibodies to *B. microti* are tested with an indirect immunofluorescent assay.

Lyme Western Blot (86617): This test detects antibodies to various proteins to the lyme spirochete – *Borrelia burgdorferi*. We test for both IgG and IgM antibodies and follow the CDC criteria for lyme disease. A positive test is indicated with two or more IgM bands or 5 or more IgG protein bands.

Ehrlichia IgG & IgM (86666): This test uses immunofluorescent technology to detect both IgG and IgM antibodies to *Ehrlichia chaffeensis* (Human monocytic ehrlichiosis)

Anaplasma IgG & IgM (86666): This test uses immunofluorescent technology to detect both IgG and IgM antibodies to *Anaplasma phagocytophilum*. (Human granulocytic ehrlichiosis).

Ehrlichia/Anaplasma IgG & IgM (86666): This is a panel that includes IgG and IgM antibody tests to both *Ehrlichia chaffeensis* and *Anaplasma phagocytophilum*.

Bartonella IgG & IgM (86611): This immunofluorescent assay detects both IgG and IgM antibodies to *Bartonella henselae* and *Bartonella quintana*.

Rickettsia IgG & IgM (86757): This immunofluorescent assay detects IgG and IgM antibodies to *Rickettsia rickettsii* (Rocky Mountain Spotted Fever) and *Rickettsia typhi* (Typhus Fever Group).

Weil-Felix Antigens (86000): These agglutination tests are used to detect antibodies to febrile antigens. This test screens for antibodies to Typhus Fever Group, Paratyphoid Fever, Tularemia, Spotted Fever Group, Brucellosis, Salmonella Infection, Q Fever, and Rickettsialpox.

Q Fever (86638): This immunofluorescent assay detects IgG and IgM antibodies to phase I and II of *Coxiella burnetii*.

Molecular Diagnostics (PCR) Tests:

Babesia spp. by PCR (87798): Screens for all 28 Babesia species by our highly sensitive proprietary PCR method. Ticks or biting insects can also be tested. **(Now Available)**

Toxoplasma spp. by PCR (87798): Screens for Toxoplasma species by our highly sensitive PCR method. Ticks or biting insects can also be tested. **(Now Available)**

Bartonella spp. by PCR (87471): Screens for all clinically relevant species of Bartonella by our novel real-time PCR method. **(Now Available)**

Borrelia spp. by PCR (87801): Screens for 4 Borrelia species (*burgdorferi*, *afzelli*, *valaisina*, and *garinii*) by our novel real-time PCR method. Ticks or biting insects can also be tested. **(Now Available)**

XMRV by PCR (87798): Screens for Xenotropic murine leukemia virus related virus infection in white blood cell enriched DNA preparations. Two independent regions of the virus are tested. **(Now Available)**