



TECHNICAL INFO:

DETECTION OF IgG Abs to LEISHMANIA IN DOGS

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| Method / Test type | ELISA / Qualitative |
| Sample | (Canine) Serum or Plasma |
| Sample volume | 2 ml |
| Min. volume accepted | 0.5 ml |
| Sample collection | Serum or plasma sample collected according to standard laboratory practices. |
| Shipping | Ship frozen or refrigerated, for next-day delivery. Frozen is recommended. |
| Stability | 30 days at -20°C (Frozen); OR 7 days at 4°C (Refrigerated) |
| Rejection criteria | <p>Sample that is not canine serum or plasma.</p> <p>Clearly contaminated sample – bacterial, fungal, foreign objects.</p> <p>Sample arriving outside of stability.</p> |
| Reportable/Ref. range | Positive or Negative. Negative is normal. |
| Reporting time | 3 days (from lab receipt) |
| Significance | <p>Leishmaniasis is a zoonotic infection caused by protozoan parasites of <i>Leishmania</i> spp. These parasites are transmitted to animals, or humans, from bites of infected female phlebotomine sandflies.</p> <p>Vector-borne transmission has not been demonstrated in the US, although there is clear data supporting vertical transmission in foxhounds naturally infected in US. And dogs that travel internationally to endemic areas are at risk of infection.</p> |
| Test specifics | <p>The ELISA test kit is a semiquantitative in vitro assay for detection of antibodies of the immunoglobulin class IgG against antigens of the <i>Leishmania donovani</i> complex (<i>L. infantum</i>, <i>L. chagasi</i>, <i>L. donovani</i>) in canine serum or plasma for the diagnosis of canine leishmaniasis.</p> <p>Diluted samples are initially incubated in reagent wells coated with recombinant Leishmania antigen. In positive samples, specific anti-Leishmania IgG antibodies will bind to the antigen. To detect amount (titer) of specific anti-Leishmania IgG bound, secondary binding of IgG-specific conjugated antibody is used to catalyze a colorimetric reaction (with TMB) to produce a blue color at OD450nm.</p> |