What is the Idexx SNAP 4Dx Plus Test?

The Idexx SNAP 4Dx Plus Test is a rapid screening test for evidence of infection with a number of canine vector-borne agents. It uses ELISA technology to detect:

- *Dirofilaria immitis* (heartworm) antigen
- Ehrlichia (*Ehrlichia canis* & *Ehrlichia ewingii*) antibodies
- Anaplasma (*Anaplasma phagocytophilum* & *Anaplasma platys*) antibodies
- *Borrelia burgdorferi* sensu lato (Lyme disease) antibodies

This is a qualitative test (i.e. gives a positive or negative result) so the actual quantity of antibody or antigen detected is not determined; but results can inform planning of further investigation.

What are the sample requirements?

Serum – minimum 0.5ml

What is the turnaround time?

Typically same working day as receipt

Additional notes

A positive antibody result indicates exposure and subsequent seroconversion to Ehrlichia, Anaplasma or Borrelia – but not necessarily clinical disease due to this organism.

If heartworm infection is suspected, a heartworm screening test should be performed that combines the heartworm antigen test in the SNAP 4Dx Plus with a modified Knott’s test for microfilariae, as false negative results can occur with the heartworm antigen test alone.

Information on these diseases and their manifestations in dogs can be found in separate fact sheets on the Acarus Infectious Disease PCRs page.