



InSight V-IA HP Ag Evaluation  
vs. PCR

The InSight V-IA is an easy to use Veterinary Immunoassay Analyser providing accurate and reliable results in 3-15 minutes. The InSight V-IA uses immunofluorescence technology for accurate results. A competitive binding assay is based upon the competition of labelled and unlabelled analytes for a limited number of antibody binding sites. Unbound antibodies and immunocomplexes migrate along the nitrocellulose membrane towards the test line. The unbound antibodies are then captured by antigens immobilised on the test line. The fluorescent signal intensity reflects the amount of analytes captured and is measured by the InSight V-IA.

### **HP Ag**

Helicobacter pylori was isolated from the stomach of dogs, cats and other animals, and through evolutionary analysis and homology analysis. It was found that the homology rate of HP isolated from pet owners and dogs and cats was as high as 100%. Therefore, pets can also be infected with HP virus, and sick pets often appear vomiting, soft stool, lethargy, loss of appetite, weight loss, dehydration, and even neurological symptoms in severe cases.

### **Comparison Items**

#### **InSight V-IA:**

Test Item – HP Ag

Sample Type – Fresh Canine and Feline Faeces

Quantity of Samples – 40 Tests

#### **PCR:**

Test Item – HP Ag

Sample Type – Fresh Canine and Feline Faeces

Quantity of Samples – 40 Tests

### **Results**

HP Ag		PCR		
		Positive	Negative	Total
InSight V-IA	Positive	13	1	14
	Negative	1	25	26
	Total	14	26	40

Positive Coincidence Rate	93%
Negative Coincidence Rate	96%
Total Coincidence Rate	95%

Sample	PCR (CT)	InSight V-IA (ng/mL)
1	(Negative)	23.40 (Negative)
2	(Negative)	9.5 (Negative)
3	CT36.56 (Weak Positive)	55.86 (Positive)
4	CT15.74 (Positive)	305.51 (Positive)
5	(Negative)	6.85 (Negative)
6	(Negative)	11.05 (Negative)
7	(Negative)	15.4 (Negative)

8	(Negative)	21.02 (Negative)
9	CT10.11 (Positive)	350.67 (Positive)
10	CT35.45 (Weak Positive)	59.23 (Positive)
11	CT9.35 (Positive)	457.14 (Positive)
12	CT17.14 (Positive)	240.83 (Positive)
13	(Negative)	16.21 (Negative)
14	(Negative)	6.47 (Negative)
15	CT20.20 (Positive)	248.51 (Positive)
16	(Negative)	8.75 (Negative)
17	CT8.25 (Positive)	485.25 (Positive)
18	CT13.05 (Positive)	322.54 (Positive)
19	(Negative)	32.58 (Positive)
20	(Negative)	18.33 (Negative)
21	CT33.00 (Weak Positive)	45.15 (Positive)
22	CT25.06 (Positive)	108.38 (Positive)
23	CT28.01 (Positive)	88.42 (Positive)
24	(Negative)	24.55 (Negative)
25	(Negative)	13.58 (Negative)
26	CT24.69 (Positive)	186.58 (Positive)
27	(Negative)	17.23 (Negative)
28	(Negative)	12.22 (Negative)
29	(Negative)	9.87 (Negative)
30	(Negative)	20.11 (Negative)
31	(Negative)	15.07 (Negative)
32	(Negative)	9.87 (Negative)
33	(Negative)	15.77 (Negative)
34	CT35.67 (Weak Positive)	28.24 (Negative)
35	(Negative)	12.50 (Negative)
36	(Negative)	8.54 (Negative)
37	(Negative)	15.87 (Negative)
38	(Negative)	12.14 (Negative)
39	(Negative)	23.87 (Negative)
40	(Negative)	24.11 (Negative)

**Conclusion**

Based on comparative analysis, the total coincidence rate of InSight V-IA HP Ag Rapid Quantitative Test Kit and a PCR is as high as 95%, indicating that the InSight V-IA reagent is comparable to the PCR.