



InSight V-IA Giardia Evaluation
vs. IDEXX Giardia

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.

Giardia

Giardia is a protozoan parasite, one of the common parasites of intestinal infection, and also one of the pathogenic parasites of zoonosis, which can infect people, dogs and cats. As the intermediate host of Giardia, dogs and cats mainly parasite the small intestine, occasionally the large intestine, which is very harmful to dogs and cats.

Comparison Items

InSight V-IA:

Test Item – Giardia

Sample Type – Fresh Canine and Feline Faeces

Quantity of Samples – 55 Tests

IDEXX:

Test Item – Giardia

Sample Type – Fresh Canine and Feline Faeces

Quantity of Samples – 55 Tests

Results

Giardia		IDEXX		
		Positive	Negative	Total
InSight V-IA	Positive	14	1	15
	Negative	1	39	40
	Total	15	40	55

Positive Coincidence Rate	93%
Negative Coincidence Rate	98%
Total Coincidence Rate	96%

Sample	IDEXX	InSight V-IA (ug/mL)
1	Negative	0.06
2	Negative	3.72
3	Positive	8.82
4	Negative	0.08
5	Negative	0.04
6	Positive	6.45
7	Negative	0.43
8	Positive	23.1

9	Positive	22.5
10	Negative	0.04
11	Positive	7.76
12	Negative	0.15
13	Negative	0.25
14	Positive	8.37
15	Negative	0.41
16	Negative	0.2
17	Negative	4.54
18	Negative	0.14
19	Negative	0.06
20	Negative	3.43
21	Positive	3.88
22	Negative	0.09
23	Negative	0.14
24	Negative	0.25
25	Negative	0.16
26	Positive	12.02
27	Negative	0.24
28	Negative	0.27
29	Negative	0.55
30	Positive	10.34
31	Negative	0.16
32	Negative	0.09
33	Negative	3.11
34	Negative	0.08
35	Positive	9.61
36	Positive	32.1
37	Negative	0.12
38	Negative	0.08
39	Negative	0.15
40	Negative	0.05
41	Negative	0.04
42	Negative	0.09
43	Positive	5.59
44	Negative	0.26
45	Negative	0.13
46	Negative	0.1
47	Positive	24.91
48	Negative	3.44
49	Negative	0.18
50	Negative	0.21
51	Positive	21.12
52	Negative	0.19
53	Positive	31.48
54	Negative	0.15
55	Negative	0.18

Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
2.5ug/mL	2.77	2.74	2.58	2.61	2.82	2.69	2.79	2.11	2.53	3	2.66	6.56%
8ug/mL	7.66	8.27	8.62	8.83	7.71	8.41	7.41	7.66	8.52	8.48	8.16	1.96%
30ug/mL	30.18	29.34	28.02	27.15	26.54	32.1	26.12	29.87	29.49	29.78	28.86	-3.80%

Conclusion

Based on comparative analysis, the total coincidence rate of InSight V-IA Giardia Rapid Quantitative Test Kit and IDEXX Giardia Test Kit is as high as 96%, indicating that the InSight V-IA reagent is comparable to the IDEXX test kit.