



InSight V-IA FCV 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.

FCV Ag

Feline calicivirus infection is a viral respiratory infection of cats, mainly manifested by upper respiratory symptoms, namely depression, serous and mucous rhinorrhoea, conjunctivitis, stomatitis, bronchitis, accompanied by biphasic fever. Feline calicivirus infection is a common disease in cats with high morbidity and low mortality.

Comparison Items

InSight V-IA:

Test Item – FCV Ag

Sample Type – Fresh Feline Nasopharyngeal Secretions, Saliva or Ocular Secretions

Quantity of Samples – 40 Tests

PCR:

Test Item – FCV Ag

Sample Type – Fresh Feline Nasopharyngeal Secretions, Saliva or Ocular Secretions

Quantity of Samples – 40 Tests

Results

FCV Ag		PCR		
		Positive	Negative	Total
InSight V-IA	Positive	8	2	10
	Negative	0	30	30
	Total	8	32	40

Positive Coincidence Rate	100%
Negative Coincidence Rate	94%
Total Coincidence Rate	95%

Sample	PCR (CT)	InSight V-IA (ug/mL)
1	(Negative)	5.14 (Negative)
2	(Negative)	3.67 (Negative)
3	(Negative)	2.85 (Negative)
4	(Negative)	3.66 (Negative)
5	(Negative)	2.08 (Negative)
6	CT14.07 (Positive)	9.24 (Positive)
7	(Negative)	5.87 (Negative)
8	(Negative)	2.55 (Negative)

9	(Negative)	3.88 (Negative)
10	(Negative)	1.72 (Negative)
11	CT36.07 (Positive)	6.25 (Positive)
12	(Negative)	6.50 (Positive)
13	(Negative)	4.31 (Negative)
14	(Negative)	3.23 (Negative)
15	(Negative)	5.54 (Negative)
16	CT20.51 (Positive)	8.77 (Positive)
17	(Negative)	4.85 (Negative)
18	(Negative)	5.42 (Negative)
19	CT37.45 (Positive)	6.21 (Positive)
20	(Negative)	4.20 (Negative)
21	(Negative)	1.58 (Negative)
22	CT25.41 (Positive)	7.98 (Positive)
23	(Negative)	3.88 (Negative)
24	CT23.10 (Positive)	8.2 (Positive)
25	(Negative)	1.87 (Negative)
26	(Negative)	3.88 (Negative)
27	CT19.25 (Positive)	9.44 (Positive)
28	(Negative)	2.55 (Negative)
29	(Negative)	6.66 (Positive)
30	(Negative)	5.40 (Negative)
31	(Negative)	2.65 (Negative)
32	(Negative)	1.88 (Negative)
33	CT19.10 (Positive)	9.65 (Positive)
34	(Negative)	1.01 (Negative)
35	(Negative)	1.54 (Negative)
36	(Negative)	1.68 (Negative)
37	(Negative)	1.53 (Negative)
38	(Negative)	2.24 (Negative)
39	(Negative)	3.69 (Negative)
40	(Negative)	1.33 (Negative)

Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
3 ug/mL	3.15	3.34	3.09	2.63	3.14	3.11	3.42	2.96	3.28	3.13	3.13	4.33%
8.25 ug/mL	8.08	7.85	7.11	8.44	8.24	8.75	7.03	8.2	7.25	7	7.8	-5.45%
13.5 ug/mL	14.83	13.81	13.8	14.83	12.34	14.29	13.65	13.42	13.78	14.55	13.93	3.19%

Conclusion

Based on comparative analysis, the total coincidence rate of InSight V-IA FCV 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.