



InSight V-IA FIV Ab 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.

### **FIV Ab**

Feline Immunodeficiency Virus (FIV) is a virus that affects the immune system of cats. FIV gradually weakens a cat's immune system, making it more vulnerable to other infections and diseases.

### **Comparison Items**

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

Test Item – FIV Ab

Sample Type – Fresh Feline Plasma

Quantity of Samples – 50 Tests

#### **PCR:**

Test Item – FIV Ab

Sample Type – Fresh Feline Plasma

Quantity of Samples – 50 Tests

### **Results**

FIV Ab		PCR		
		Positive	Negative	Total
InSight V-IA	Positive	9	0	9
	Negative	1	40	41
	Total	10	40	50

Positive Coincidence Rate	90%
Negative Coincidence Rate	100%
Total Coincidence Rate	98%

Sample	PCR (CT)	InSight V-IA (IU/mL)
1	Negative	11.14 (Negative)
2	Negative	14.67 (Negative)
3	Negative	13.85 (Negative)
4	Negative	12.66 (Negative)
5	Negative	12.08 (Negative)
6	CT 12.07 (Positive)	259.24 (Positive)
7	Negative	15.87 (Negative)
8	Negative	10.55 (Negative)
9	Negative	11.88 (Negative)
10	Negative	11.22 (Negative)

11	CT 34.07 (Positive)	26.25 (Positive)
12	Negative	16.50 (Negative)
13	Negative	13.31 (Negative)
14	Negative	14.23 (Negative)
15	Negative	25.54 (Negative)
16	CT 21.51 (Positive)	168.67 (Positive)
17	Negative	14.85 (Negative)
18	Negative	15.42 (Negative)
19	CT 33.45 (Positive)	126.21 (Positive)
20	Negative	14.20 (Negative)
21	Negative	11.58 (Negative)
22	CT 26.41 (Positive)	117.96 (Positive)
23	Negative	12.88 (Negative)
24	CT 23.10 (Positive)	128.2 (Positive)
25	Negative	11.87 (Negative)
26	Negative	13.84 (Negative)
27	CT 19.25 (Positive)	179.45 (Positive)
28	Negative	12.55 (Negative)
29	Negative	15.66 (Negative)
30	Negative	15.40 (Negative)
31	Negative	12.65 (Negative)
32	Negative	11.88 (Negative)
33	CT 18.10 (Positive)	179.65 (Positive)
34	Negative	11.01 (Negative)
35	Negative	11.55 (Negative)
36	Negative	11.69 (Negative)
37	CT 29.20 (Positive)	11.57 (Negative)
38	Negative	12.24 (Negative)
39	Negative	17.69 (Negative)
40	Negative	11.33 (Negative)
41	Negative	14.15 (Negative)
42	CT 17.10 (Positive)	217.26 (Positive)
43	Negative	18.28 (Negative)
44	Negative	19.32 (Negative)
45	Negative	16.31 (Negative)
46	Negative	12.94 (Negative)
47	Negative	14.52 (Negative)
48	Negative	12.32 (Negative)
49	Negative	11.96 (Negative)
50	Negative	15.78 (Negative)

Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
10 IU/mL	10.19	10.13	10.23	10.29	10.45	9.61	9.79	9.78	9.57	9.12	9.92	-0.84%
30 IU/mL	28.4	29.51	32.05	29.15	29.61	31.3	31.85	31.94	29.6	27.07	30.05	0.16%
120 IU/mL	118.74	119.82	123.51	121.47	118.57	112.92	123.85	119.03	108.01	127.39	119.33	-0.56%

### **Conclusion**

Based on comparative analysis, the total coincidence rate of InSight V-IA FIV Ab Rapid Quantitative Test Kit and a PCR is as high as 98%, indicating that the InSight V-IA reagent is comparable to the PCR.