



InSight V-IA fSAA Evaluation
vs. Vcheck fSAA

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.

fSAA

SAA is an acute phase protein secreted by the liver. Levels of SAA increase dramatically when cats are exposed to inflammation. SAA can be used to detect the presence of inflammation. It is also a prognostic marker for many diseases, such as diabetes and hyperthyroidism.

Comparison Items

InSight V-IA:

Test Item – fSAA

Sample Type – Fresh Feline Serum

Quantity of Samples – 81 Tests

Vcheck:

Test Item – fSAA

Sample Type – Fresh Feline Serum

Quantity of Samples – 81 Tests

Results

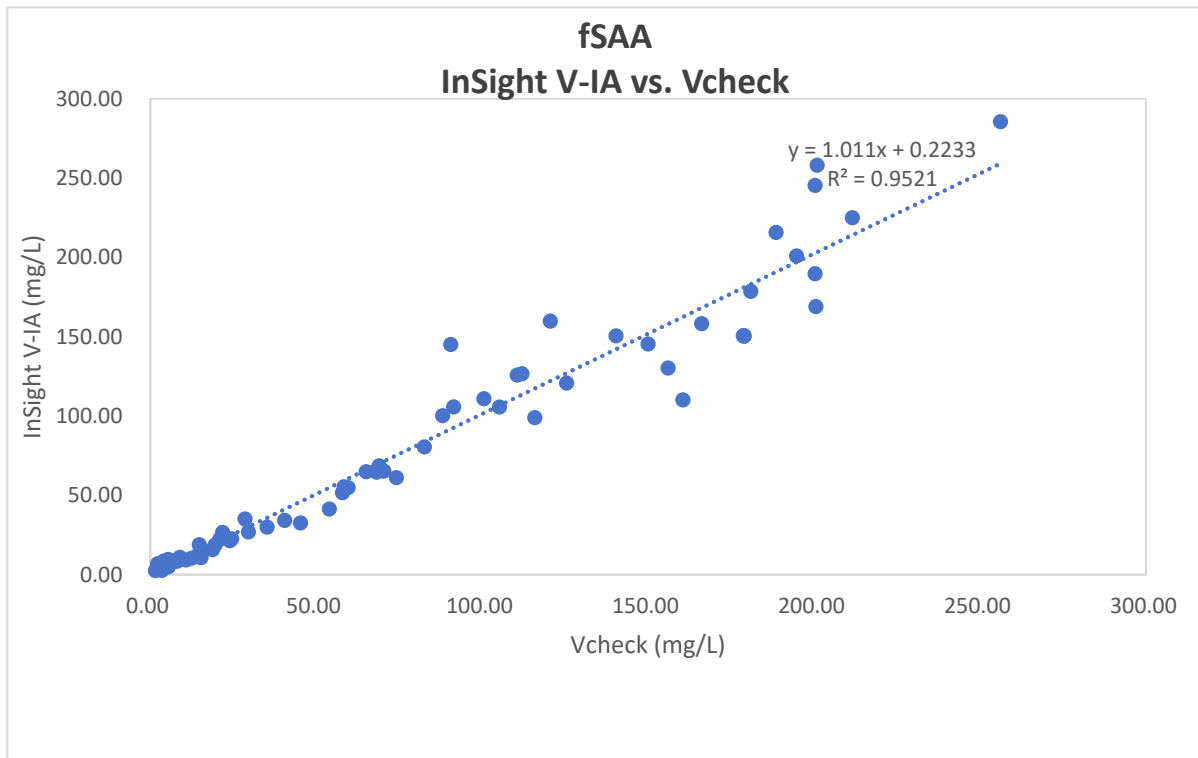
fSAA		Vcheck		
		Positive	Negative	Total
InSight V-IA	Positive	62	1	63
	Negative	2	16	18
	Total	64	17	81

Positive Coincidence Rate	97%
Negative Coincidence Rate	94%
Total Coincidence Rate	96%

Sample	Vcheck (mg/L)	InSight V-IA (mg/L)
1	2.30	5.41
2	7.55	8.25
3	40.52	34.08
4	5.63	8.07
5	20.96	22.15
6	100.54	110.80
7	21.83	26.50
8	8.97	10.83
9	4.11	8.52

10	3.54	2.60
11	68.26	64.46
12	45.31	32.50
13	4.58	7.23
14	58.45	55.33
15	15.01	14.47
16	29.58	26.86
17	14.80	18.75
18	2.33	5.60
19	4.27	7.11
20	1.59	2.43
21	70.44	65.17
22	15.34	10.59
23	35.21	29.85
24	5.49	4.80
25	24.58	22.46
26	12.54	10.24
27	59.08	54.89
28	10.85	9.20
29	2.46	6.44
30	24.00	21.32
31	74.19	61.05
32	8.50	9.40
33	54.00	41.23
34	2.30	4.80
35	65.08	64.78
36	59.62	54.85
37	82.64	80.46
38	14.50	11.78
39	7.80	8.59
40	18.78	15.60
41	5.45	9.50
42	4.26	7.70
43	8.20	8.50
44	4.15	7.50
45	19.58	18.56
46	125.46	120.73
47	5.00	7.50
48	3.59	6.90
49	28.59	35.05
50	2.25	6.80
51	91.45	105.68
52	69.00	68.56
53	150.00	145.31
54	112.00	126.54
55	90.58	145.00
56	115.89	98.86
57	160.50	110.11

58	140.35	150.49
59	110.57	125.77
60	88.11	100.08
61	57.94	51.62
62	211.56	224.93
63	4.78	6.39
64	200.96	258.07
65	166.14	158.11
66	178.92	150.23
67	188.58	215.69
68	194.75	200.85
69	120.54	159.73
70	105.25	105.60
71	156.03	130.25
72	178.94	150.65
73	3.16	5.71
74	4.68	7.35
75	256.18	285.54
76	200.31	189.69
77	178.67	150.60
78	200.57	168.99
79	200.34	245.35
80	2.46	3.72
81	180.94	178.56



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
6.25 mg/L	7.49	6.09	6.28	6.44	7.05	6.23	6.31	6.03	6.77	6.7	6.54	4.62%
50 mg/L	40.35	48.72	46.93	42.81	52.18	48.36	41.73	44.1	52.05	47.5	46.47	-7.05%
200 mg/L	213.99	220.63	211.47	193.11	223.07	211.6	220.09	214.63	234.73	184.02	212.73	6.37%

Conclusion

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