



InSight V-IA Canine CRP Evaluation
vs. Vcheck Canine CRP

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.

Canine CRP

An acute protein in CRP serum, with trace amounts of CRP in normal dog serum, that increases within 4-6 hours of infection or tissue injury, and peaks 24-48 hours later. After the symptoms disappear, CRP levels quickly return to normal. cCRP is used as a general marker for inflammatory response.

Comparison Items

InSight V-IA:

Test Item – Canine CRP

Sample Type – Fresh Canine Serum

Quantity of Samples – 50 Tests

Vcheck:

Test Item – Canine CRP

Sample Type – Fresh Canine Serum

Quantity of Samples – 50 Tests

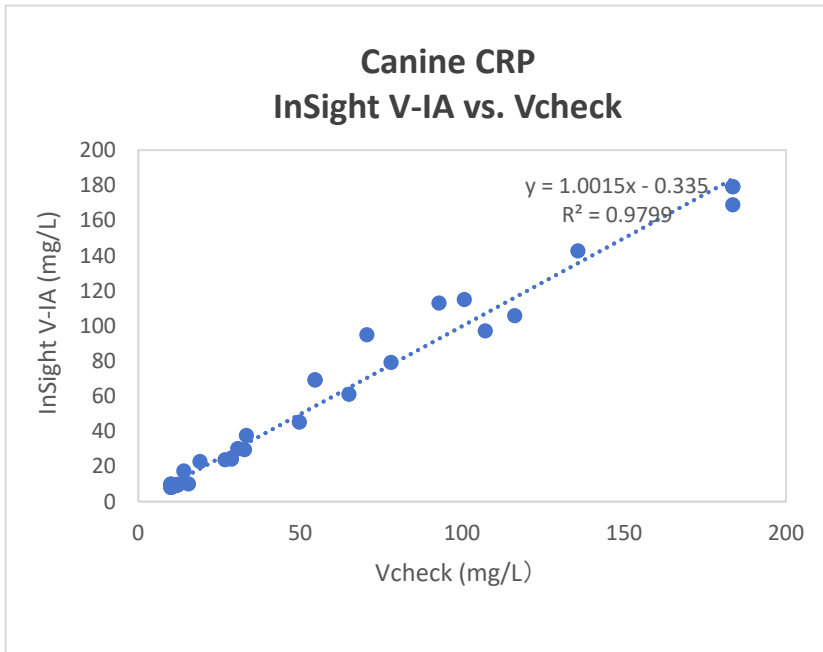
Results

Canine CRP		Vcheck		
		Positive	Negative	Total
InSight V-IA	Positive	20	2	22
	Negative	0	28	28
	Total	20	30	50

Positive Coincidence Rate	100%
Negative Coincidence Rate	93%
Total Coincidence Rate	96%

Sample	Vcheck (mg/L)	InSight V-IA (mg/L)
1	12.18	9.37
2	10.66	8.45
3	54.63	69.21
4	10.97	8.96
5	183.67	179.12
6	10.13	8.02
7	30.84	30.08
8	10.08	9.93
9	33.43	37.59

10	10.80	8.65
11	10.16	9.25
12	10.91	9.47
13	92.92	112.92
14	116.29	105.74
15	11.73	9.45
16	135.83	142.59
17	12.04	9.48
18	10.93	9.25
19	10.26	9.71
20	10.53	9.67
21	10.62	9.06
22	10.23	9.76
23	32.85	29.54
24	183.67	168.83
25	11.52	9.27
26	10.08	9.76
27	12.54	9.80
28	49.78	45.15
29	15.55	9.97
30	107.22	97.07
31	11.14	9.11
32	14.12	17.39
33	70.67	94.92
34	100.72	114.91
35	10.34	9.16
36	28.83	24.17
37	26.89	23.78
38	12.17	9.58
39	11.86	9.67
40	19.13	22.76
41	11.54	9.13
42	65.12	60.98
43	78.11	79.18
44	12.10	9.33
45	10.66	8.45
46	54.63	69.21
47	10.97	8.96
48	183.67	179.12
49	10.13	8.02
50	30.84	30.08



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
5 mg/L	5.31	5.97	4.67	5.04	5.27	4.66	5.17	4.75	5.86	5.42	5.21	4%
25 mg/L	26.2	23.95	25.56	23.35	26.74	24.25	26.98	25.84	26.62	24.45	25.39	2%
80 mg/L	78.24	77.83	87.56	76.31	75.86	75.15	75.86	76.86	85.96	77.42	78.71	-2%

Conclusion

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