InSight V-IA cCRP Evaluation

vs. IDEXX

The InSight V-IA is an easy to use veterinary Immunoassay Analyser providing accurate and reliable results in 3-15mins. 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

cCRP is used as a general marker for inflammatory response.

Comparison Items

InSight V-IA:
Test Item – cCRP
Quantity of Samples – 25 Tests
Lot No. – H032201018
Instrument – InSight V-IA Veterinary Immunoassay Analyser

IDEXX:
Test Item – cCRP
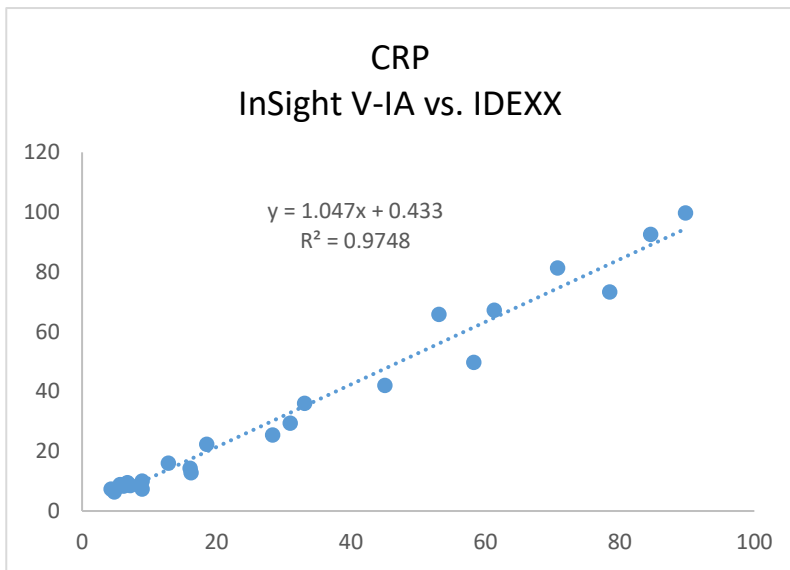Quantity of Samples – 25 Tests
Lot No. – 720023B
Instrument – IDEXX

Test Results

Sample	InSight V-IA (mg/L)	IDEXX (mg/L)	Mark
1	8.94	9.9	Negative
2	16.22	12.7	Positive
3	5.65	8.8	Negative
4	4.29	7.3	Negative
5	30.98	29.3	Positive
6	84.58	92.5	Positive
7	78.52	73.2	Positive
8	4.77	6.3	Negative
9	28.34	25.4	Positive
10	70.74	81.2	Positive
11	18.54	22.2	Positive
12	89.79	99.7	Positive
13	6.24	8.31	Negative
14	61.34	67.07	Positive
15	7.17	8.39	Negative
16	33.11	35.94	Positive
17	16.08	14.27	Positive
18	6.75	9.43	Negative
19	8.91	7.25	Negative
20	6.08	8.33	Negative

21	12.85	15.88	Positive
22	45.07	41.9	Positive
23	58.3	49.67	Positive
24	53.1	65.74	Positive
25	6.34	8.67	Negative

Linear Correlation

R^2	0.9748
R	0.9873

CRP
InSight V-IA vs. IDEXX

$y = 1.047x + 0.433$
$R^2 = 0.9748$

Accuracy

CRP		IDEXX		
		Positive	Negative	Total
InSight V-IA	Positive	15	0	15
	Negative	0	10	10
	Total	15	10	25

Positive Coincidence Rate	100%
Negative Coincidence Rate	100%
Total Coincidence Rate	100%

Repeatability

Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias Max%
8.9mg/L	8.35	8.89	9.15	9.3	9.87	8.94	9.28	9.8	9.36	9.48	9.242	4%
22mg/L	23.47	21.57	20.24	20.38	23.41	22.2	25.62	21.92	24.84	23.42	22.707	3%
80mg/L	82.59	86.59	81.23	73.88	83.39	86.91	84.34	87.37	73.83	75.72	81.585	2%