



InSight V-IA Cortisol Evaluation
vs. Vcheck Cortisol

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.

Cortisol

Cortisol is a hormone that regulates metabolism and is used to help diagnose adrenal disorders.

Comparison Items

InSight V-IA:

Test Item – Cortisol

Sample Type – Fresh Canine and Feline Serum or Plasma

Quantity of Samples – 45 Tests

Vcheck:

Test Item – Cortisol

Sample Type – Fresh Canine and Feline Serum or Plasma

Quantity of Samples – 45 Tests

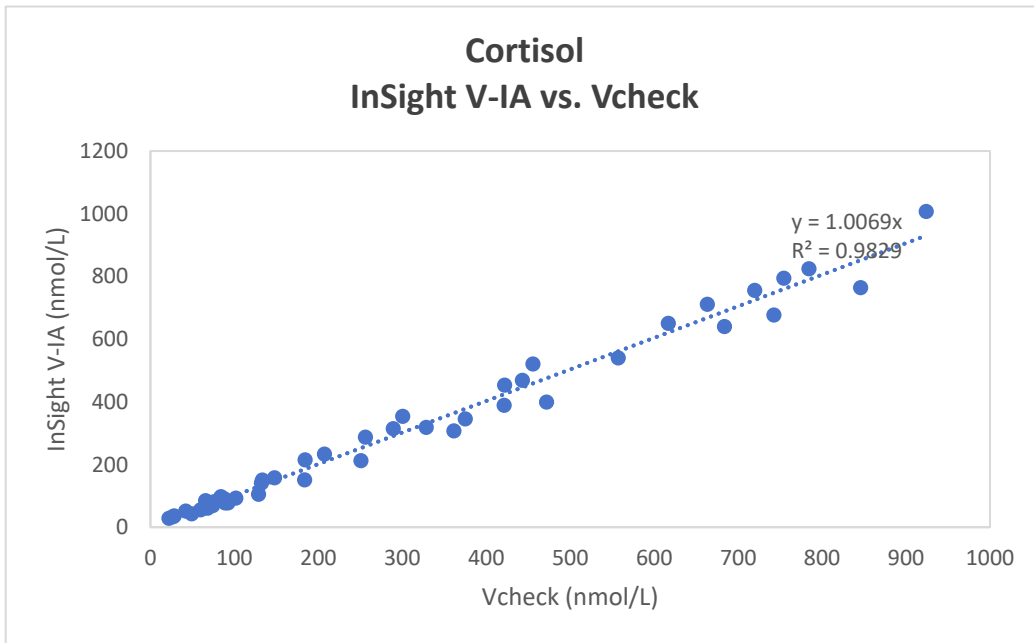
Results

Cortisol		Vcheck		
		Positive	Negative	Total
InSight V-IA	Positive	24	0	24
	Negative	1	20	21
	Total	25	20	45

Positive Coincidence Rate	96%
Negative Coincidence Rate	100%
Total Coincidence Rate	98%

Sample	Vcheck (nmol/L)	InSight V-IA (nmol/L)
1	27.33	33.19
2	22.33	28.15
3	28.52	35.67
4	42.35	50.94
5	74.37	68.59
6	59.94	55.07
7	89.11	77.04
8	102.02	92.59
9	133.64	150.08
10	147.97	157.19
11	207.53	232.92

12	183.98	150.34
13	328.74	317.95
14	300.79	353.29
15	289.56	314.07
16	443.17	468.09
17	92.55	76.94
18	256.37	286.71
19	375.2	344.96
20	68.24	60.01
21	128.95	104.64
22	49.44	42.53
23	75.92	80.87
24	84.17	97.01
25	65.92	84.27
26	88.25	90.17
27	184.53	214.24
28	132.37	140.51
29	69.94	78.42
30	361.69	306.65
31	455.87	520.09
32	422.09	452.67
33	421.45	388.59
34	472.06	398.59
35	557.46	539.68
36	617.01	650.19
37	684.01	639.75
38	742.77	676.46
39	846.11	764.05
40	663.63	710.84
41	784.64	824.07
42	754.64	793.85
43	251.03	211.61
44	719.98	755.17
45	924.22	1006.59



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
120 nmol/L	134.26	133.89	110.47	128	138.12	105.42	132.56	111.89	136.45	125.12	125.62	4.68%
250 nmol/L	271.26	277.16	256.04	269.92	274.8	274.08	265.58	268.49	243.52	264.23	266.51	6.60%
850 nmol/L	787.35	791.75	781.32	811.34	806.81	895.95	882.04	814.98	874.27	771.6	821.74	-3.32%

Conclusion

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