



InSight V-IA fTT4 Evaluation  
vs. Vcheck T4

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.

#### **FTT4**

Thyroxine is used to evaluate thyroid function. Results below the normal range indicate hypothyroidism, while results above the normal range indicate hyperthyroidism. Hypothyroidism is common in dogs and hyperthyroidism is common in cats. Cats suspected of hyperthyroidism can be tested for Feline Total Thyroxine to confirm that T4 levels are normal.

#### **Comparison Items**

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

Test Item – fTT4

Sample Type – Fresh Feline Clinical Samples

Quantity of Samples – 40 Tests

##### **Vcheck:**

Test Item – fTT4

Sample Type – Fresh Feline Clinical Samples

Quantity of Samples – 40 Tests

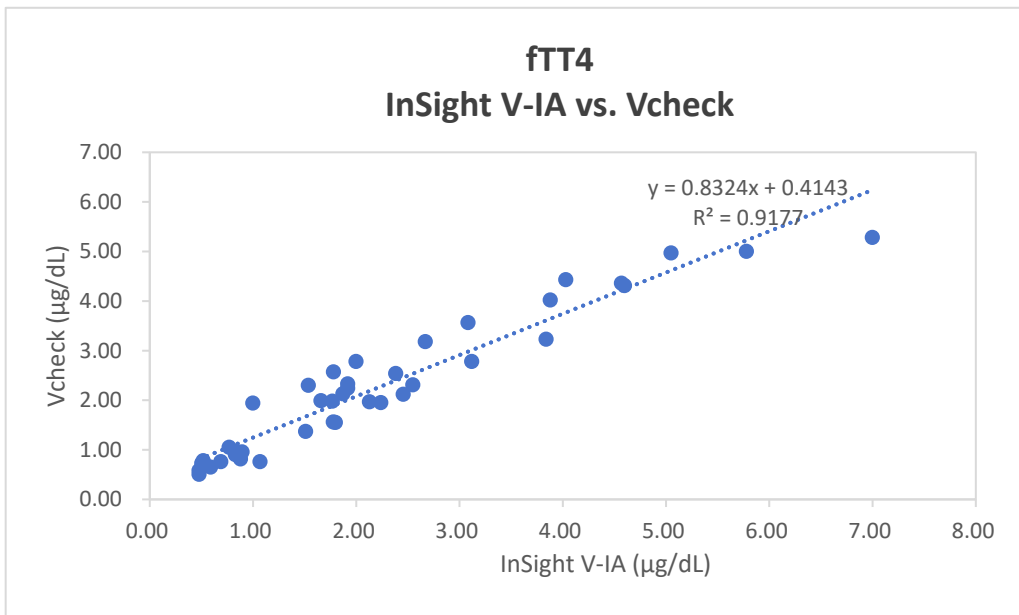
#### **Results**

fTT4		Vcheck		
		Positive	Negative	Total
InSight V-IA	Positive	9	1	10
	Negative	1	29	30
	Total	10	30	40

Positive Coincidence Rate	90%
Negative Coincidence Rate	97%
Total Coincidence Rate	95%

Sample	Vcheck (ug/dL)	InSight V-IA (ug/dL)
1	1.77	1.98
2	1.80	1.55
3	0.59	0.65
4	1.51	1.37
5	1.78	1.56
6	3.88	4.02
7	1.00	1.94
8	2.55	2.31

9	5.78	5.00
10	2.38	2.54
11	5.05	4.97
12	7.00	5.28
13	2.00	2.78
14	3.08	3.57
15	2.46	2.12
16	4.60	4.31
17	3.12	2.78
18	2.67	3.18
19	4.03	4.43
20	1.92	2.33
21	0.69	0.76
22	0.77	1.05
23	0.83	0.90
24	1.07	0.76
25	1.66	1.99
26	1.87	2.13
27	1.78	2.57
28	2.24	1.95
29	2.13	1.97
30	0.48	0.51
31	0.48	0.58
32	0.52	0.78
33	1.54	2.30
34	4.57	4.36
35	0.88	0.82
36	0.90	0.96
37	0.51	0.73
38	0.83	0.96
39	3.84	3.23
40	1.92	2.24



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
0.6 µg/dL	0.61	0.63	0.58	0.68	0.55	0.6	0.64	0.64	0.68	0.58	0.62	3%
2.00 µg/dL	1.82	1.8	2.08	1.94	1.92	1.97	1.8	1.98	1.87	2.14	1.93	-3%
7.00 µg/dL	7.26	7.16	7.39	7.15	6.96	7.19	7.08	6.92	7.38	6.83	7.132	2%

**Conclusion**

Based on comparative analysis, the total coincidence rate of InSight V-IA fTT4 Rapid Quantitative Test Kit and Vcheck T4 Test Kit is as high as 95%, indicating that the InSight V-IA reagent is comparable to the Vcheck quantitative reagent.