



InSight V-IA fPL Evaluation
vs. Vcheck fPL

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.

fPL

Pancreatic specific lipase is a specific lipase secreted by the pancreas. Normally, there is only a small amount of lipase in the blood, which is cleared by the kidneys. In acute pancreatitis, damage to the pancreatic vesicles leads to the release of lipase in large quantities into the bloodstream. fPL is used as an indicator for diagnosis of pancreatitis in cats.

Comparison Items

InSight V-IA:

Test Item – fPL

Sample Type – Fresh Feline Serum

Quantity of Samples – 40 Tests

Vcheck:

Test Item – fPL

Sample Type – Fresh Feline Serum

Quantity of Samples – 40 Tests

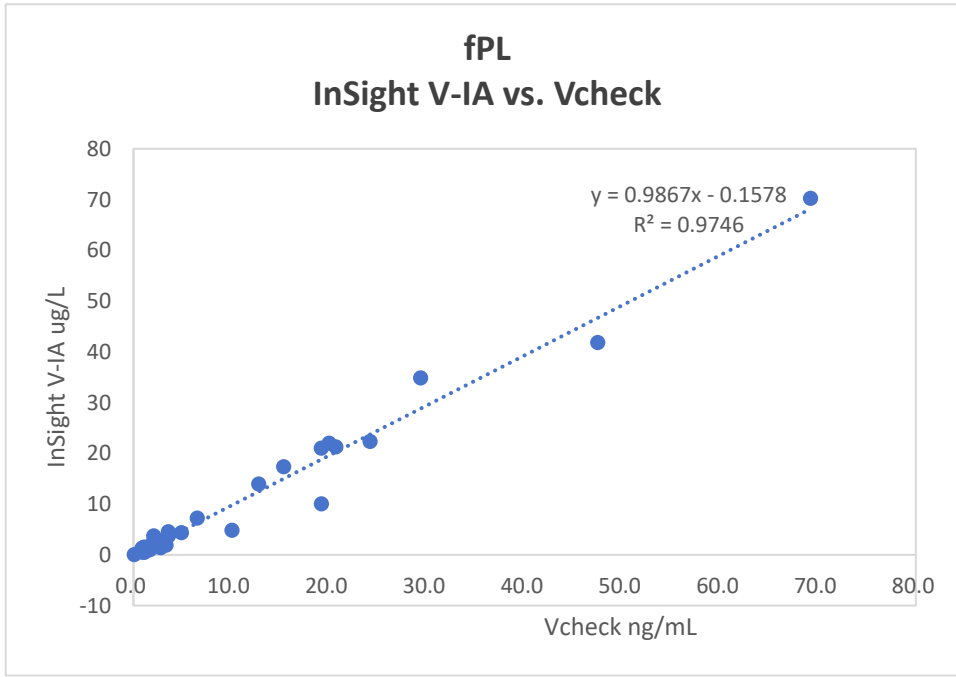
Results

fPL		Vcheck		
		Positive	Negative	Total
InSight V-IA	Positive	15	1	16
	Negative	0	24	24
	Total	15	25	40

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

Sample	Vcheck (ng/mL)	InSight V-IA (ug/L)
1	0.9	0.93
2	2.2	1.58
3	3.6	3.7
4	0.9	0.98
5	1.1	1.52
6	0.9	0.97
7	0.9	1.13
8	2.7	2.10

9	2.1	3.72
10	1.0	1.35
11	1.1	0.81
12	2.8	1.37
13	2.8	2.76
14	20.0	21.97
15	24.2	22.31
16	0.9	0.51
17	1.4	1.36
18	10.1	4.83
19	1.0	1.34
20	3.6	4.53
21	19.2	10.02
22	1.0	0.96
23	1.1	1.15
24	1.2	0.73
25	2.4	2.14
26	1.9	1.94
27	2.0	2.41
28	15.4	17.33
29	1.1	0.46
30	1.7	0.96
31	1.5	0.93
32	3.4	1.87
33	69.3	70.22
34	20.7	21.25
35	47.5	41.81
36	29.4	34.82
37	19.2	21.01
38	12.8	13.93
39	6.6	7.22
40	4.9	4.36



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
1.2ug/L	1.11	1.01	1.39	1.14	0.93	1.03	1.48	1.33	0.84	0.95	1.12	-6.58%
3.9ug/L	3.99	3.69	4.07	3.78	3.52	3.72	3.68	3.54	3.64	3.95	3.76	-3.64%
7.2ug/L	6.89	6.30	6.07	7.65	7.38	6.12	6.86	6.64	7.32	6.50	6.77	-5.93%

Conclusion

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