InSight V-IA Canine HbA1c Evaluation vs. Anapure BioScientific A1cNow+

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 HbA1c

Canine HbA1c is used as an aid to diabetes diagnostic testing.

Comparison Items

InSight V-IA:
Test Item – Canine HbA1c
Quantity of Samples – 50 Tests
Lot No. – H034190501
Instrument – InSight V-IA Veterinary Immunoassay Analyser

Anapure BioScientific (A1cNow+):
Test Item – Canine HbA1c
Quantity of Samples – 50 Tests
Instrument – A1cNow+

Test Results

Sample	Anapure BioScientific (%)	InSight V-IA (%)	Mark
1	4.2	4.1	
2	4.3	4.1	
3	7.9	6.7	
4	8.1	8.9	
5	5.3	5	
6	5.7	5.3	
7	5.1	6.2	Subclinical
8	7.2	8.1	
9	7.3	7.6	
10	7.4	5.2	Subclinical
11	8.6	9.5	
12	8.7	9.3	
13	8.8	8.7	
14	9.7	10.3	
15	10.1	11.2	
16	6.3	7.6	
17	11.9	12.8	
18	12.8	14.1	

19	4.4	4.3	
20	4.5	5.9	
21	4.6	4.1	
22	7.6	7.2	
23	7.7	6.3	
24	10.6	11.7	
25	4.1	4.8	
26	8.3	7.4	
27	5.5	5.1	
28	6.4	6.8	
29	9.1	10.7	
30	9.2	9.6	
31	11.8	10.5	
32	7.1	8.6	
33	11.3	11.9	
34	11.5	10.4	
35	12.8	13.8	
36	9.39	9.7	
37	9.6	9.2	
38	13.2	13	
39	10.4	13.1	
40	6.8	6.4	

Linear Correlation

R^2	0.8886
R	0.9427

Canine HbA1c
InSight V-IA vs. Anapure BioScientific

y = 1.0489x - 0.1502
R² = 0.8886
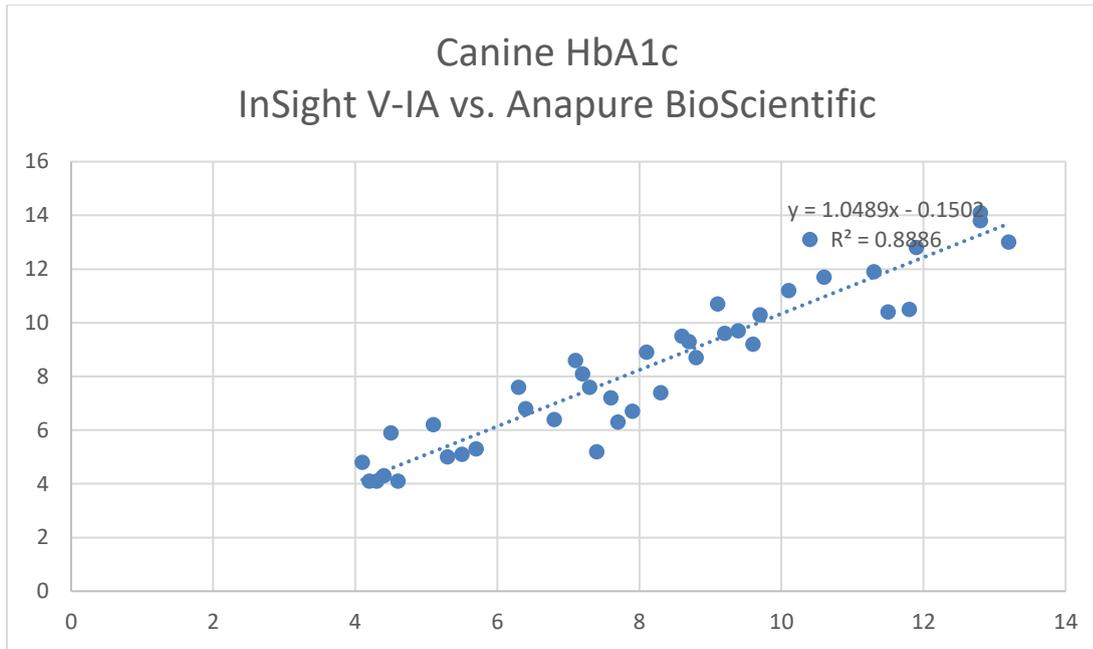
Accuracy

Canine HbA1c		InSight V-IA (%)		
		Positive	Negative	Total
Anapure BioScientific (%)	Positive	29	1	30
	Negative	1	negative	10
	Total	35	The total	45

Positive Coincidence Rate	96.7%
Negative Coincidence Rate	90.0%
Total Coincidence Rate	95.0%

Repeatability

Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias Max%
4.62%	4.85	4.66	4.89	4.95	4.91	4.73	4.09	4.65	4.67	4.72	4.7	5%
6.50%	7.4	6.2	6.8	6.2	6.5	6.7	6.1	6.6	7.5	6.8	6.7	12%
9.80%	9.9	9.6	10.2	10.5	9.8	9.9	9.7	10.5	9.5	9.8	9.9	6%