



InSight Equine-IA eProg Evaluation  
vs. Vcheck Equine Progesterone

The InSight Equine-IA is an easy to use Veterinary Immunoassay Analyser providing accurate and reliable results in 3-15 minutes. The InSight Equine-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 Equine-IA.

### **Equine Progesterone**

Progesterone is a natural progesterone secreted by the mature corpus luteum of the ovary, which is a necessary hormone to maintain the gestation of female animals. Equine Progesterone is used in maintaining early pregnancy, monitoring during pregnancy etc.

### **Comparison Items**

#### **InSight Equine-IA:**

Test Item – Equine Progesterone

Sample Type – Fresh Equine Serum

Quantity of Samples – 50 Tests

#### **Vcheck:**

Test Item – Equine Progesterone

Sample Type – Fresh Equine Serum

Quantity of Samples – 50 Tests

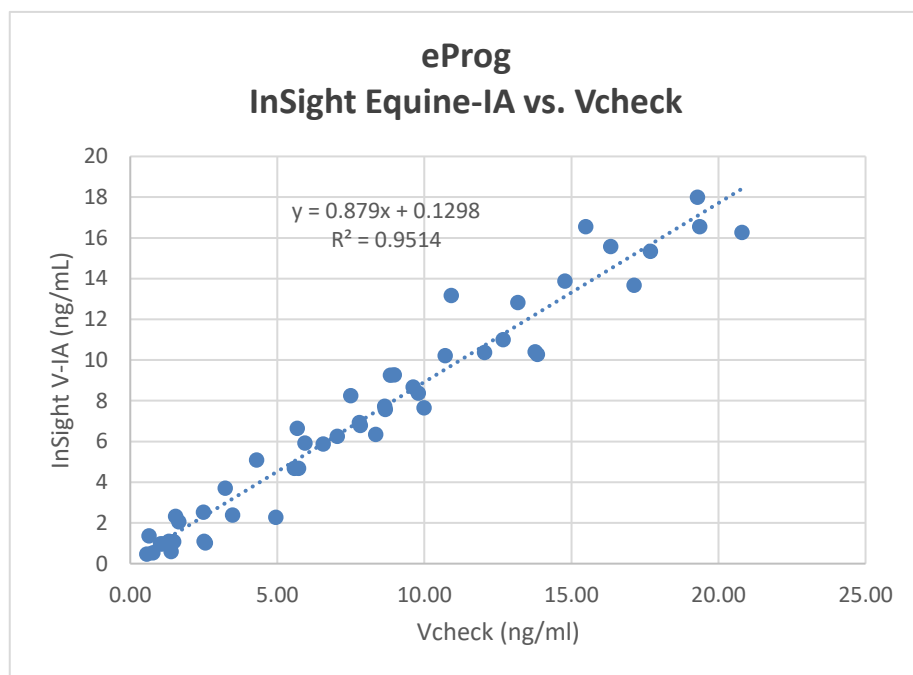
### **Results**

eProg		Vcheck		
		Positive	Negative	Total
<b>InSight Equine-IA</b>	Positive	32	0	32
	Negative	1	17	18
	Total	33	17	50

Positive Coincidence Rate	97%
Negative Coincidence Rate	100%
Total Coincidence Rate	98%

Sample	InSight Equine-IA (ng/mL)	Vcheck (ng/mL)
1	1.35	0.63
2	1.08	1.31
3	1.01	2.55
4	16.26	20.8
5	10.27	13.84
6	2.05	1.65
7	2.51	2.48
8	11.00	12.67
9	3.70	3.22

10	6.25	7.03
11	12.82	13.17
12	15.57	16.33
13	2.27	4.94
14	6.78	7.82
15	0.96	1.03
16	7.72	8.65
17	13.16	10.91
18	10.21	10.7
19	5.91	5.94
20	6.65	5.67
21	10.40	13.76
22	0.46	0.556
23	7.56	8.67
24	6.34	8.34
25	8.67	9.62
26	7.64	9.99
27	13.67	17.13
28	1.34	3.47
29	4.67	5.58
30	6.92	7.79
31	0.52	0.76
32	15.33	17.68
33	1.09	2.51
34	1.07	1.47
35	8.37	9.79
36	10.37	12.04
37	8.24	7.49
38	0.58	1.39
39	2.31	1.54
40	4.67	5.72
41	9.25	8.84
42	16.55	19.36
43	9.27	8.97
44	0.98	1.38
45	5.87	6.56
46	17.99	19.28
47	13.87	14.77
48	16.54	15.48
49	0.97	1.09
50	5.09	4.29



Sample Concentration	1	2	3	4	5	6	7	8	9	10	Mean Value	Bias%
0.5 ng/mL	0.53	0.55	0.54	0.51	0.58	0.57	0.48	0.46	0.57	0.59	0.538	7.60%
8 ng/mL	7.68	8.24	7.36	9.37	8.65	8.37	7.89	8.12	7.88	8.22	8.178	2.22%
12 ng/mL	12.3	11.67	15.34	12.34	10.23	11.93	12.58	11.37	12.08	10.98	12.082	0.68%

### **Conclusion**

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