



InSight V-IA Equine Progesterone Evaluation
vs. Vcheck Equine Progesterone

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.

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 V-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

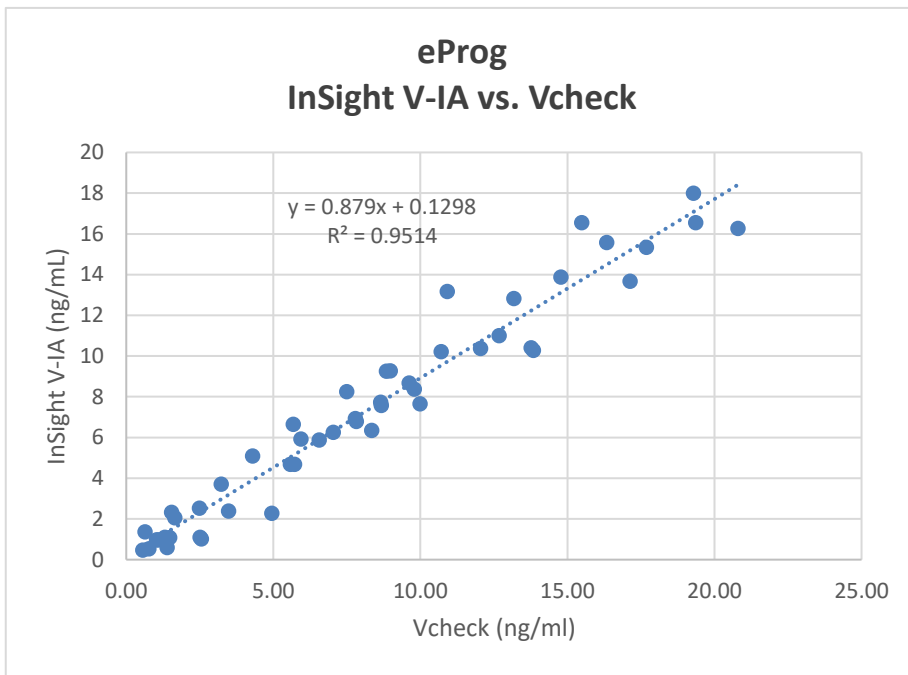
Results

| eProg | | Vcheck | | |
|--------------|----------|----------|----------|-------|
| | | Positive | Negative | Total |
| InSight V-IA | 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 V-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 V-IA Equine Progesterone Rapid Quantitative Test Kit and Vcheck Equine Progesterone Rapid Quantitative Test is as high as 98%, indicating that the InSight V-IA reagent is comparable to the Vcheck quantitative reagent.