



InSight Canine-IA cProg Evaluation  
vs. Vcheck cProg

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

#### **cProg**

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. cProg is used for the auxiliary diagnosis of ovarian residual syndrome, determination of sterilisation status, ovulation monitoring, determination of the best mating period, abortion assisted diagnosis, prediction of delivery date, etc.

#### **Comparison Items**

##### **InSight Canine-IA:**

Test Item – cProg

Sample Type – Fresh Canine Serum

Quantity of Samples – 46 Tests

##### **Vcheck:**

Test Item – cProg

Sample Type – Fresh Canine Serum

Quantity of Samples – 46 Tests

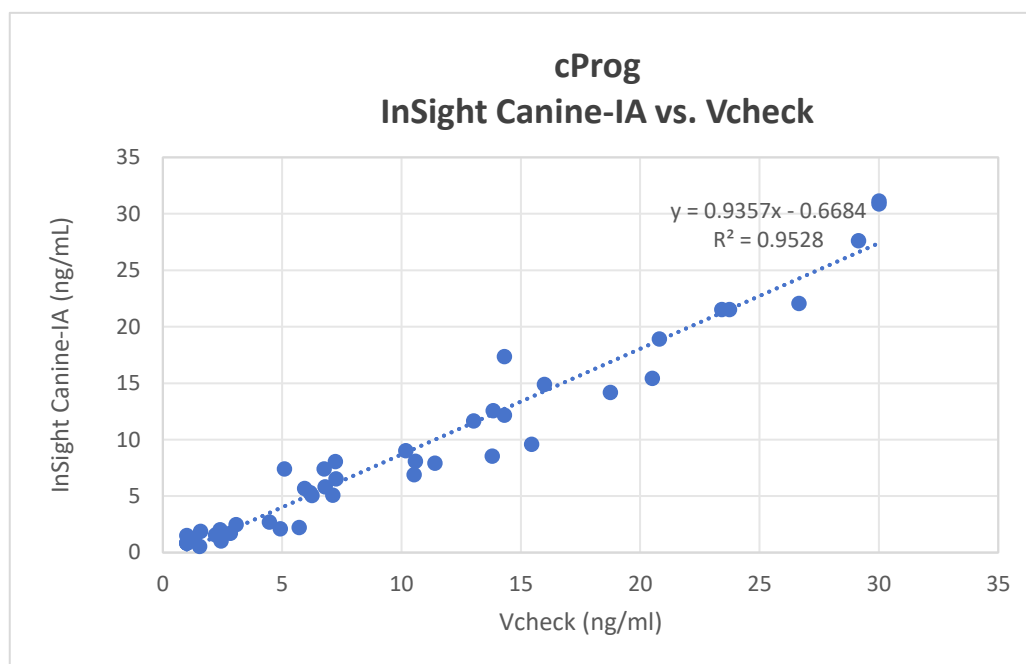
#### **Results**

| cPL               |          | Vcheck   |          |       |
|-------------------|----------|----------|----------|-------|
|                   |          | Positive | Negative | Total |
| InSight Canine-IA | Positive | 29       | 0        | 29    |
|                   | Negative | 1        | 16       | 17    |
|                   | Total    | 30       | 16       | 46    |

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

| Sample | Vcheck (ng/mL) | InSight Canine-IA (ng/mL) |
|--------|----------------|---------------------------|
| 1      | 2.83           | 1.69                      |
| 2      | 7.25           | 6.52                      |
| 3      | 7.22           | 8.04                      |
| 4      | 6.75           | 7.39                      |
| 5      | 6.25           | 3.91                      |
| 6      | 1.14           | 1.01                      |
| 7      | 3.07           | 2.46                      |
| 8      | 5.94           | 5.65                      |

|    |       |       |
|----|-------|-------|
| 9  | 1     | 0.81  |
| 10 | 14.3  | 12.15 |
| 11 | 1.28  | 1.21  |
| 12 | 1.26  | 1.11  |
| 13 | 4.46  | 2.69  |
| 14 | 6.79  | 5.8   |
| 15 | 14.3  | 17.34 |
| 16 | 4.92  | 2.09  |
| 17 | 7.12  | 5.08  |
| 18 | 1     | 1.5   |
| 19 | 2.4   | 2     |
| 20 | 1     | 0.85  |
| 21 | 1.58  | 1.86  |
| 22 | 1     | 0.81  |
| 23 | 18.74 | 14.17 |
| 24 | 5.09  | 7.38  |
| 25 | 10.52 | 6.89  |
| 26 | 1.53  | 0.53  |
| 27 | 2.2   | 1.54  |
| 28 | 11.39 | 7.89  |
| 29 | 13.8  | 8.52  |
| 30 | 15.98 | 14.88 |
| 31 | 20.8  | 18.91 |
| 32 | 13.02 | 11.64 |
| 33 | 23.74 | 21.51 |
| 34 | 6.17  | 5.3   |
| 35 | 2.44  | 1.02  |
| 36 | 5.71  | 2.2   |
| 37 | 20.5  | 15.41 |
| 38 | 23.41 | 21.5  |
| 39 | 13.84 | 12.55 |
| 40 | 26.64 | 22.04 |
| 41 | 29.14 | 27.6  |
| 42 | 30    | 30.85 |
| 43 | 30    | 31.11 |
| 44 | 10.17 | 9     |
| 45 | 10.58 | 8.07  |
| 46 | 15.44 | 9.57  |



| Sample Concentration | 1    | 2     | 3     | 4     | 5     | 6    | 7     | 8    | 9    | 10    | Mean Value | Bias% |
|----------------------|------|-------|-------|-------|-------|------|-------|------|------|-------|------------|-------|
| 0.5 ng/mL            | 0.55 | 0.53  | 0.55  | 0.53  | 0.52  | 0.57 | 0.48  | 0.49 | 0.57 | 0.54  | 0.53       | 6.00% |
| 8 ng/mL              | 7.83 | 8.04  | 7.76  | 8.51  | 9.4   | 9.06 | 8.72  | 8.12 | 7.88 | 8.59  | 8.39       | 4.88% |
| 25 ng/mL             | 23.8 | 22.31 | 27.91 | 27.14 | 27.14 | 26.4 | 24.17 | 27   | 24.7 | 27.66 | 25.82      | 3.28% |

### **Conclusion**

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