



InSight V-IA Canine TSH Evaluation vs. Vcheck V200

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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 TSH

TSH is used as an aid to diagnose thyroid function.

Comparison Items

InSight V-IA:

Test Item – Canine TSH

Quantity of Samples – 39 Tests

Lot No. – H054200506

Instrument – InSight V-IA Veterinary Immunoassay Analyser

Bionote (Vcheck):

Test Item – Canine TSH

Quantity of Samples – 39 Tests

Lot No. – F118D013

Instrument – Vcheck V200

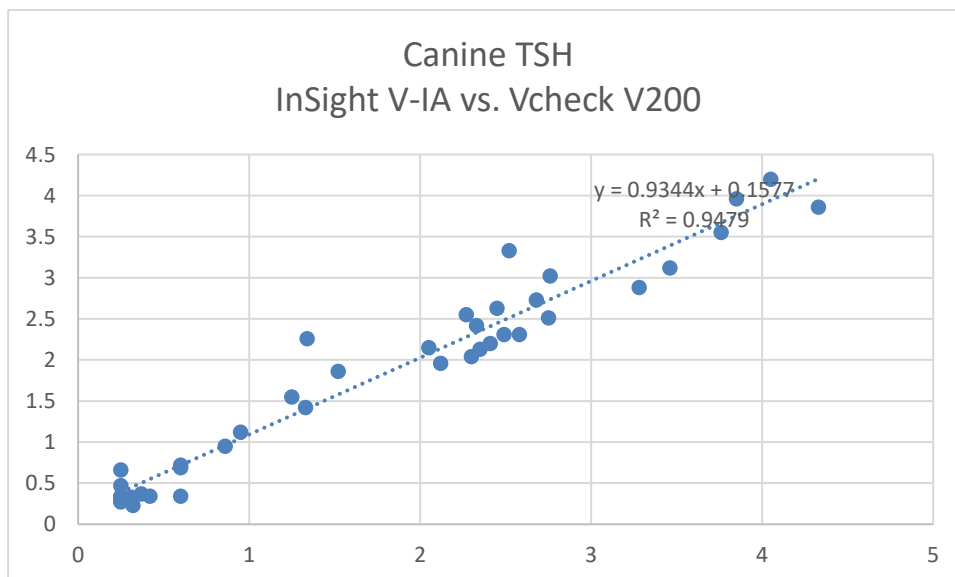
Test Results

| Sample | InSight V-IA (ng/mL) | Vcheck V200 (ng/mL) |
|--------|----------------------|---------------------|
| 1 | 0.25 | 0.27 |
| 2 | 0.25 | 0.47 |
| 3 | 0.25 | 0.33 |
| 4 | 0.25 | 0.29 |
| 5 | 0.25 | 0.66 |
| 6 | 0.25 | 0.34 |
| 7 | 0.31 | 0.33 |
| 8 | 0.32 | 0.23 |
| 9 | 0.37 | 0.37 |
| 10 | 0.42 | 0.34 |
| 11 | 0.6 | 0.34 |
| 12 | 0.6 | 0.69 |
| 13 | 0.6 | 0.72 |
| 14 | 0.86 | 0.95 |
| 15 | 0.95 | 1.12 |
| 16 | 1.25 | 1.55 |
| 17 | 1.33 | 1.42 |
| 18 | 1.34 | 2.26 |
| 19 | 1.52 | 1.86 |
| 20 | 2.05 | 2.15 |

| | | |
|----|------|------|
| 21 | 2.12 | 1.96 |
| 22 | 2.27 | 2.55 |
| 23 | 2.3 | 2.04 |
| 24 | 2.33 | 2.42 |
| 25 | 2.35 | 2.13 |
| 26 | 2.41 | 2.2 |
| 27 | 2.45 | 2.63 |
| 28 | 2.49 | 2.31 |
| 29 | 2.52 | 3.33 |
| 30 | 2.58 | 2.31 |
| 31 | 2.68 | 2.73 |
| 32 | 2.75 | 2.51 |
| 33 | 2.76 | 3.02 |
| 34 | 3.28 | 2.88 |
| 35 | 3.46 | 3.12 |
| 36 | 3.76 | 3.55 |
| 37 | 3.85 | 3.96 |
| 38 | 4.05 | 4.2 |
| 39 | 4.33 | 3.86 |

Linear Correlation

| | |
|----------------|-------|
| R ² | 0.948 |
| R | 0.974 |



Accuracy

| Canine TSH | | InSight V-IA | | |
|----------------|----------|--------------|----------|-------|
| | | Positive | Negative | Total |
| Vcheck V200 | Positive | 28 | 1 | 30 |
| | Negative | 1 | 8 | 9 |
| | Total | 29 | 9 | 39 |

| | |
|---------------------------|--------|
| Positive Coincidence Rate | 96.55% |
| Negative Coincidence Rate | 89% |
| Total Coincidence Rate | 97.44% |

Repeatability

| Sample Concentration | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Mean Value | Bias Max% |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|-----------|
| 100ug/L | 95.15 | 104.06 | 103.47 | 91.24 | 100.65 | 70.94 | 94.81 | 128.66 | 91.1 | 129.46 | 100.954 | 1% |
| 310ug/L | 286.93 | 346.31 | 367.76 | 253.05 | 327.47 | 373.98 | 383.35 | 388.7 | 225.54 | 295.76 | 324.885 | 5% |
| 811ug/L | 907.11 | 806.31 | 801.04 | 842.97 | 925.86 | 907.52 | 816.6 | 901.23 | 911.68 | 853.08 | 867.34 | 8% |