



InSight Canine-IA T4 Evaluation  
vs. IDEXX T4

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.

#### **T4**

T4 is used to assist in the evaluation of thyroid function.

#### **Comparison Items**

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

Test Item – T4

Quantity of Samples – 50 Tests

Instrument – InSight Canine-IA Veterinary Immunoassay Analyser

##### **IDEXX:**

Test Item – T4

Quantity of Samples – 50 Tests

Instrument – Catalyst One

#### **Results**

| <b>Sample</b> | <b>IDEXX (nmol/L)</b> | <b>InSight Canine-IA (nmol/L)</b> |
|---------------|-----------------------|-----------------------------------|
| 1             | 36.6                  | 35.82                             |
| 2             | 36.6                  | 39.73                             |
| 3             | 24.8                  | 27.12                             |
| 4             | 24.7                  | 28.64                             |
| 5             | 13.0                  | 9.82                              |
| 6             | 13.0                  | 10.02                             |
| 7             | 13.0                  | 8.85                              |
| 8             | 13.0                  | 15.64                             |
| 9             | 26.3                  | 25.61                             |
| 10            | 13.0                  | 18.84                             |
| 11            | 36.8                  | 38.71                             |
| 12            | 38.9                  | 42.23                             |
| 13            | 13.0                  | 6.53                              |
| 14            | 34.5                  | 38.94                             |
| 15            | 29.2                  | 35.97                             |
| 16            | 13.0                  | 8.45                              |
| 17            | 29.8                  | 28.36                             |
| 18            | 19.9                  | 24.51                             |
| 19            | 18.4                  | 12.35                             |
| 20            | 13.0                  | 6.97                              |
| 21            | 18.6                  | 9.81                              |
| 22            | 19.4                  | 21.7                              |
| 23            | 32.4                  | 35.92                             |

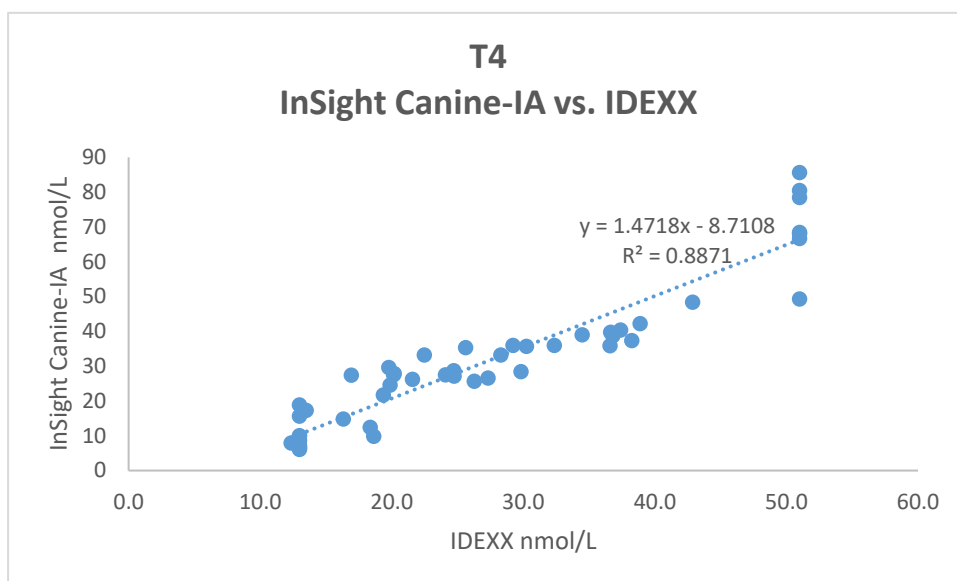
|    |      |       |
|----|------|-------|
| 24 | 13.0 | 6.05  |
| 25 | 16.9 | 27.34 |
| 26 | 13.5 | 17.27 |
| 27 | 51.0 | 85.64 |
| 28 | 51.0 | 49.3  |
| 29 | 51.0 | 68.05 |
| 30 | 21.6 | 26.17 |
| 31 | 51.0 | 80.47 |
| 32 | 20.1 | 27.47 |
| 33 | 12.4 | 7.89  |
| 34 | 51.0 | 66.65 |
| 35 | 22.5 | 33.21 |
| 36 | 30.3 | 35.64 |
| 37 | 51.0 | 68.43 |
| 38 | 13.0 | 7.21  |
| 39 | 51.0 | 78.48 |
| 40 | 13.0 | 6.44  |
| 41 | 16.3 | 14.74 |
| 42 | 20.2 | 27.82 |
| 43 | 24.1 | 27.47 |
| 44 | 28.3 | 33.15 |
| 45 | 37.4 | 40.34 |
| 46 | 25.6 | 35.31 |
| 47 | 27.3 | 26.58 |
| 48 | 38.3 | 37.36 |
| 49 | 42.9 | 48.36 |
| 50 | 19.8 | 29.61 |

**NOTE:**

- Samples 1-25 = Dogs
- Samples 26-50 = Cats

### Linear Correlation

|                |        |
|----------------|--------|
| R <sup>2</sup> | 0.8871 |
| R              | 0.9419 |



| T4                |          | IDEXX    |          |       |
|-------------------|----------|----------|----------|-------|
|                   |          | Positive | Negative | Total |
| InSight Canine-IA | Positive | 15       | 2        | 17    |
|                   | Negative | 3        | 30       | 33    |
|                   | Total    | 18       | 32       | 50    |

|                           |     |
|---------------------------|-----|
| Positive Coincidence Rate | 83% |
| Negative Coincidence Rate | 94% |
| Total Coincidence Rate    | 90% |

### Reference Range of T4 in Serum

|        | Signification | nmol/L  | ug/dL   |
|--------|---------------|---------|---------|
| Canine | Low           | <12.9   | <1.0    |
|        | Normal        | 12.9-50 | 1.0-3.9 |
|        | High          | >50     | >3.9    |
| Feline | Low           | <10.3   | <0.8    |
|        | Normal        | 10.3-60 | 0.8-4.7 |
|        | High          | >60     | >4.7    |