



## InSight V-IA fSAA 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.

### **Feline SAA**

SAA is used as a general marker for inflammatory response.

### **Comparison Items**

#### **InSight V-IA:**

Test Item – fSAA

Quantity of Samples – 76 Tests

Lot No. – H032200415

Instrument – InSight V-IA Veterinary Immunoassay Analyser

#### **Bionote (Vcheck V200):**

Test Item – fSAA

Quantity of Samples – 76 Tests

Lot No. – F1020020

Instrument – Vcheck V200

### **Test Results**

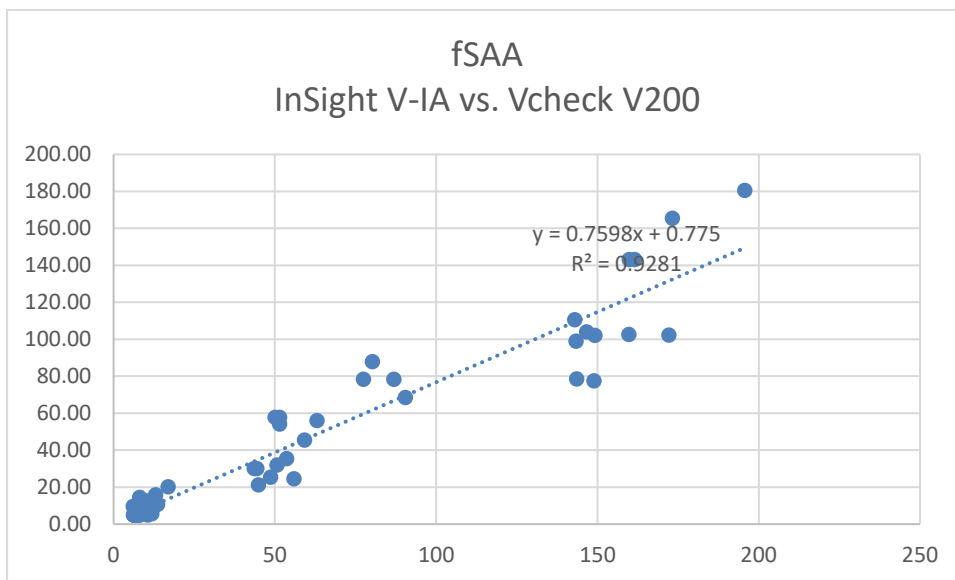
| Sample | InSight V-IA (mg/L) | Vcheck V200 (mg/L) | Mark |
|--------|---------------------|--------------------|------|
| 1      | 51.47               | 57.70              |      |
| 2      | 50.08               | 57.70              |      |
| 3      | 12.59               | 10.70              |      |
| 4      | 13.68               | 10.70              |      |
| 5      | 8.27                | 5.60               |      |
| 6      | 149.22              | 102.00             |      |
| 7      | 146.64              | 104.00             |      |
| 8      | 161.56              | 143.10             |      |
| 9      | 159.87              | 143.10             |      |
| 10     | 43.64               | 30.10              |      |
| 11     | 44.44               | 30.10              |      |
| 12     | 9.24                | 7.50               |      |
| 13     | 9.77                | 5.60               |      |
| 14     | 8.02                | 5.40               |      |
| 15     | 195.67              | 180.50             |      |
| 16     | 173.27              | 165.40             |      |
| 17     | 143.37              | 98.99              |      |
| 18     | 142.95              | 110.50             |      |
| 19     | 10.49               | 12.50              |      |
| 20     | 16.91               | 20.15              |      |

|    |        |        |          |
|----|--------|--------|----------|
| 21 | 8.05   | 14.50  |          |
| 22 | 11.9   | 12.50  |          |
| 23 | 77.43  | 78.40  |          |
| 24 | 86.91  | 78.40  |          |
| 25 | 11.42  | 5.80   |          |
| 26 | 8.65   | 5.80   |          |
| 27 | 90.46  | 68.50  |          |
| 28 | 80.19  | 87.80  |          |
| 29 | 8.49   | 7.50   |          |
| 30 | 11.26  | 12.00  |          |
| 31 | 12.78  | 12.10  |          |
| 32 | 12.9   | 12.10  |          |
| 33 | 159.7  | 102.50 |          |
| 34 | 172.15 | 102.20 |          |
| 35 | 59.17  | 45.50  |          |
| 36 | 50.7   | 32.00  |          |
| 37 | 51.47  | 54.10  |          |
| 38 | 53.59  | 35.40  |          |
| 39 | 55.93  | 24.56  |          |
| 40 | 63.03  | 56.00  |          |
| 41 | 12.96  | 10.50  |          |
| 42 | 143.6  | 78.50  |          |
| 43 | 148.89 | 77.40  |          |
| 44 | 9.01   | 5.80   |          |
| 45 | 11.8   | 5.60   |          |
| 46 | 48.72  | 25.40  |          |
| 47 | 44.94  | 21.20  |          |
| 48 | 13.06  | 15.80  |          |
| 49 | 9.7    | 12.00  |          |
| 50 | 7.38   | 5.00   |          |
| 51 | 6.23   | 5.00   |          |
| 52 | 10.53  | 5.00   | critical |
| 53 | 6.17   | 5.00   |          |
| 54 | 7.24   | 5.00   |          |
| 55 | 6.83   | 5.00   |          |
| 56 | 6.93   | 5.00   |          |
| 57 | 8      | 5.00   |          |
| 58 | 7.56   | 5.00   |          |
| 59 | 7.32   | 5.00   |          |
| 60 | 7.01   | 5.00   |          |
| 61 | 7.99   | 5.00   |          |
| 62 | 7.79   | 5.00   |          |
| 63 | 6.31   | 5.00   |          |
| 64 | 6.48   | 5.00   |          |
| 65 | 7.51   | 9.60   | critical |
| 66 | 6.08   | 9.60   | critical |

|    |      |      |  |
|----|------|------|--|
| 67 | 6.7  | 5.00 |  |
| 68 | 7.79 | 5.00 |  |
| 69 | 7.81 | 5.00 |  |
| 70 | 7.08 | 5.00 |  |
| 71 | 6.8  | 5.00 |  |
| 72 | 7    | 5.00 |  |
| 73 | 7.36 | 5.00 |  |
| 74 | 7.54 | 5.00 |  |

**Linear Correlation**

|                      |       |
|----------------------|-------|
| <b>R<sup>2</sup></b> | 0.928 |
| <b>R</b>             | 0.963 |



**Accuracy**

| fSAA         |          | Vcheck V200 |          |       |
|--------------|----------|-------------|----------|-------|
|              |          | Positive    | Negative | Total |
| InSight V-IA | Positive | 49          | 1        | 50    |
|              | Negative | 2           | 22       | 24    |
|              | Total    | 51          | 23       | 74    |

|                           |        |
|---------------------------|--------|
| Positive Coincidence Rate | 96.08% |
| Negative Coincidence Rate | 95.65% |
| Total Coincidence Rate    | 95.95% |

### Repeatability

| Sample Concentration | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | Mean Value | Bias Max % |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|------------|
| 10mg/L               | 9.41   | 10.48  | 9.53   | 10.45  | 11.07  | 9.75   | 10.29  | 9.42   | 9.83   | 10.86  | 10.109     | 9.5%       |
| 50mg/L               | 48.56  | 52.73  | 54.68  | 55.31  | 45.54  | 48.08  | 54.55  | 51.74  | 45.81  | 47.74  | 50.474     | 9.5%       |
| 125ug/L              | 138.61 | 139.39 | 127.14 | 117.22 | 129.16 | 126.78 | 146.79 | 130.99 | 118.17 | 125.88 | 130.013    | 12.9%      |