Evaluation of the TurboReader veterinary instrument for the detection of CRP in canine serum

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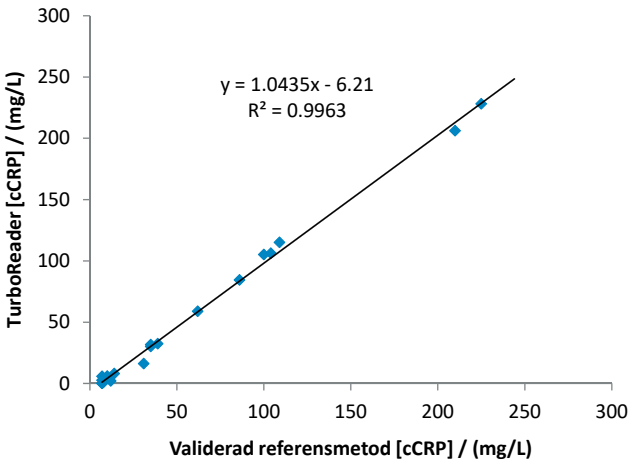
Introduction

The measurement of C-Reactive Protein (CRP) concentration in 19 canine patient serum samples was performed with the TurboReader veterinary instrument (EURIS AB, SE) and with a Chemistry Analyzer (Gentian Canine CRP Assay, NO) as reference method.

Results

Correlation with reference method:

The observed correlation (see graph) with the reference method was: R2=0.9963. The slope of the correlation curve was 1.0435. The y axis intercepts of the correlation curves was -6.21.



False positive results:

No false positive results (see graph) were obtained for samples below the method's clinical cut-off (35 mg/L).

Conclusions

The TurboReader correlated well with the Gentian Canine CRP assay for chemistry analyzers. No false positive results were obtained with the TurboReader, suggesting strong diagnostic confidence in CRP measurements within the clinically healthy range. False positive results could lead to the misuse of antibiotics in dogs. Both methods use canine specific antibodies for detection and a canine CRP calibrator for calibration. Thus, both the TurboReader and the reference method are species specific assays.

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