

MERCODIA CANINE INSULIN ELISA

10-1203-01



WHEN ACCURACY MATTERS

www.mercodia.com

Intended use

A high quality enzyme immunoassay for the quantification of canine insulin in serum or plasma.

Test principle

Mercodia Canine Insulin ELISA is a solid phase two-site enzyme immunoassay based on the sandwich technique, in which two monoclonal antibodies are directed against separate antigenic determinants on the insulin molecule. Insulin in the sample reacts with anti-insulin antibodies bound to microtitration wells and peroxidase-conjugated anti-insulin antibodies in the solution.

Summary of protocol

- Add 25 µL Calibrators, controls and samples
- Add 100 µL enzyme conjugate solution
- Incubate 2 hours on shaker at room temperature
- Wash plate 6 times
- Add 200 µL Substrate TMB
- Incubate 15 minutes at room temperature
- Add 50 µL Stop Solution
- Shake for approximately 5 seconds on shaker
- Measure at 450 nm

Samples

Serum, plasma or culture medium can be used.

Measurement range

2.3 - 173 mU/L

Catalog No

10-1203-01 1 x 96 wells

Test characteristics

Sensitivity

The detection limit is 1.15 mU/L as determined with the methodology described in ISO11843-Part 4.

Recovery

Recovery upon addition is 103 - 124 % (111 %).

Recovery upon dilution is 75 - 102 % (90 %).

Precision

Each sample was analyzed in 4 replicates on 13 different occasions.

Sample	Mean value (mU/L)	Coefficient of variation	
		Repeatability %	Within Laboratory %
1	6.6	4.5	4.6
2	14.7	2.9	6.3
3	23.6	2.1	3.8

*Within assay variation

**Total assay variation

Performance limitations

Grossly lipemic, icteric or haemolyzed samples do not interfere in the assay.

Specificity

The following cross-reactions have been tested:

Porcine Insulin	100 %
Porcine C-peptide	< 0.001 %
Porcine Proinsulin	< 0.2 %
Human Insulin	108 %
Human C-peptide	< 0.01 %
Human Proinsulin	< 0.1 %
NovoRapid	3.2 %
Levemir	n.d.
Lantus	27 %
Humalog	n.d.

n.d. = not detected

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