MERCODIA FELINE INSULIN ELISA
10-1233-01

WHEN ACCURACY MATTERS
www.mercodia.com
Intended use
A high quality enzyme immunoassay for the quantification of feline insulin in serum or plasma.

Test principle
Mercodia Feline 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.

Test characteristics
Sensitivity
The detection limit is ≤ 9.2 ng/L as determined with the methodology described in ISO11843-Part 4.

Recovery
Recovery upon addition is 84 - 101% (107%).
Recovery upon dilution is 91 - 128% (95%).

Precision
Each sample was analyzed in 4 replicates on 16 different occasions. The analysis were done in 2 laboratories with 2 kit lots and by 4 technicians.

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

Specificity
The following cross-reactions have been tested:

NovoRapid® (Insulin aspart) 5.9%
Levemir® (Insulin detemir) < 0.008%
Lantus® (Insulin glargin) 8.4%
Humalog® (Insulin lispro) < 0.00000002%
Apidra® (Insulin glulisine) 0.0000007%
Vetsulin®, Caninsulin® 57.4%

Summary of protocol
- Add 10 μL Calibrators, controls and samples
- Add 200 μL enzyme conjugate solution
- Incubate 2 hours on shaker at room temperature
- Wash plate 6 times
- Add 200 μL Substrate TMB
- Incubate 30 minutes at room temperature
- Add 50 μL Stop Solution
  Shake for approximately 5 seconds on shaker
- Measure at 450 nm

Samples
Serum, EDTA, heparin and citrate plasma can be used.

Measurement range
10 - 700 ng/L

Catalog No
10-1233-01 1 x 96 wells

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