

ULTRA SENSITIVE RAT INSULIN ELISA KIT

Catalog number

Ultra Sensitive Rat Insulin ELISA (10 Pack) 90062

Intended use

A high quality enzyme immunoassay for the quantification of rat insulin in fluid, plasma, and serum.

Test principle

Crystal Chem's Ultra Sensitive Rat Insulin ELISA Kit is based on a sandwich enzyme immunoassay using only a 5 µL sample to produce same day results. The kit can be run using an ultrasensitive low range, wide range, or high range screening method to yield a wide dynamic range with just one kit.

Specifications

Sample Types	Serum, Plasma, and Fluid
Assay Time	Same Day Procedure
Range	Low Range: 0.1-6.4 ng/mL Wide Range: 0.1 - 12.8 ng/mL High Range: 1 - 64 ng/mL
Sample Size	5 µL
Sensitivity	0.05 ng/mL
Precision	CV < 10%

Specificity

Rat Insulin..... 100%
 Mouse Insulin..... 100%*
 Human IGF-I..... Not detected
 Human IGF-II..... Not detected

*Can vary from lot to lot. See insert in kit.

Highlights

- ✓ Kits use only 5 µL sample
- ✓ Very sensitive (0.05 ng/mL)
- ✓ Run different ranges using the same kit
- ✓ Works with multiple sample types
- ✓ Complete the full test in < 3.5 hours

Summary of protocol

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graph TD
    A[Add 95 µL diluent with 5 µL sample] --> B[Incubate 2 hours at 4 °C]
    B --> C[Wash plate]
    C --> D[Add 100 µL conjugate solution]
    D --> E[Incubate 30 minutes at room temperature]
    E --> F[Wash plate]
    F --> G[Add 100 µL substrate solution]
    G --> H["Incubate for 40 minutes (low/wide range)  
or 10 minutes (high range)"]
    H --> I[Add 100 µL stop solution]
    I --> J[Measure OD at 450/630 nm]
  
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