Catalog number
Rat Insulin ELISA .......................................................... 90010

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

Test principle
Crystal Chem’s Rat Insulin ELISA Kit is based on a sandwich enzyme immunoassay. The kit can be run using a high-sensitivity low range (20 μL) or a standard range method (5 μL) to achieve very accurate results.

Specificity
Rat insulin ................................................................. 100%
Mouse Insulin ........................................................... 105%
Rat C-Peptide ............................................................ Not detected
Rat pancreatic polypeptide ........................................ Not detected
Human IGF-I .............................................................. Not detected
Human IGF-II .............................................................. Not detected
Human Insulin ............................................................ Detected*

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

Specifications
<table>
<thead>
<tr>
<th>Sample Types</th>
<th>Serum, Plasma, and Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay Time</td>
<td>Overnight</td>
</tr>
<tr>
<td>Range</td>
<td>Low Range: 0.039 - 2.5 ng/mL Standard Assay: 0.156 - 10 ng/mL</td>
</tr>
<tr>
<td>Sample Size</td>
<td>5 μL</td>
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<tr>
<td>Sensitivity</td>
<td>39 pg/mL using 20 μL</td>
</tr>
<tr>
<td>Precision</td>
<td>CV &lt; 10%</td>
</tr>
</tbody>
</table>

Highlights
- Kits use only 5 μL sample
- Very sensitive (39 pg/mL using 20 μL)
- Optimized for rat samples
- Works with multiple sample types

Summary of protocol

Add 95 μL diluent with 5 μL sample*
↓
Incubate overnight at 4 °C
↓
Wash plate
↓
Add 100 μL conjugate solution
↓
Incubate 1 hour at room temperature
↓
Wash plate
↓
Add 100 μL substrate solution
↓
Incubate 30 minutes
↓
Add 100 μL stop solution
↓
Measure OD at 450/630 nm

*For high sensitivity assay, use 80 μL diluent with 20 μL sample

See kit insert or email us for a complete protocol