Catalog# 90060

Ultra Sensitive Rat Insulin ELISA Kit

Sample Size: 5µl

Samples: Serum, plasma or fluid

Tests: 96 wells (8 wells x 12 modules) **Reagents:** In liquid form (except standard)

Assay Range: Low Range Assay: 0.1 – 6.4 ng/ml

Wide Range Assay: 0.1 – 12.8 ng/ml* High Range Assay: 1 – 64 ng/ml

* Intended for screening purposes.

Assay Time: Same day procedure

Precision: Intra-assay precision CV ≤ 10.0%

Inter-assay precision CV ≤ 10.0%

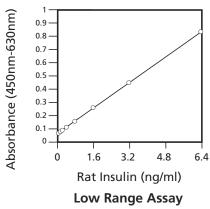
Recovery: When rat insulin was spiked into rat serum, the recovery of rat insulin was 100%±10%

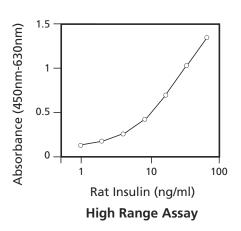
Specificity: Substance Reactivity

Rat insulin	100%
Mouse insulin	100%*
Rat C-peptide	Not detected
Rat pancreatic polypeptide	Not detected
Porcine glucagons	Not detected
Human insulin like growth factor-l	Not detected
Human insulin like growth factor-ll	Not detected

^{*} Can vary from lot to lot. Specific cross-reactivity data is included with each kit.

Typical Standard Curves:





Highlights:

- Small Sample Volume: Only 5µl
- High Sensitivity: 100 pg/ml using 5µl sample and 5 pg/ml using 100µl sample
- Both Low and High Insulin Assay: Using same kit
- **Precision:** Intra-assay and inter-assay precision CV ≤ 10.0%
- **Protocol:** Same protocol for serum, plasma or fluid assay

Summary of AssayUltra Sensitive Rat Insulin ELISA Kit (Cat# 90060)

Affix the antibody-coated	d microplate to the frame
	l
Dispense 95µl of sar	nple diluent per well
	l e e e e e e e e e e e e e e e e e e e
Pipette 5µl of the sample (or wor	king rat insulin standard) per well
•	l
Incubate the micropla	ate for 2 hours at 4°C
•	ı
Wash each well five tir	nes with wash buffer*
4	l
Dispense 100µl of anti-insuli	n enzyme conjugate per well
4	l
Incubate the microplate for 30	minutes at room temperature
4	l
Wash each well seven t	imes with wash buffer*
4	l
Dispense 100µl of enzyme	substrate solution per well
4	l
Incubate microplate at room tempera	ature while avoiding exposure to light
V	V
40 minutes –	10 minutes –
low/wide range assay	high range assay
V	
	l of enzyme reaction stop solution per well
	A ₆₃₀ values within 30 minutes •
Calculate insulin concentration	ons using the standard curve
Fach well should be washed with 300ul	of wash huffer. Asnirate the wells complete

so all excess solution is removed.