



Growth Hormone (GH) BioAssay™ ELISA Kit (Mouse)

Catalog number

517266

Supplier

United States Biological

Sample Type:

Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

Intended Use

The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of growth hormone in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.

Sensitivity

46.2pg/ml

Range

123.5-10,000pg/ml

Specificity

This assay has high sensitivity and excellent specificity for detection of Growth Hormone (GH). No significant cross-reactivity or interference between Growth Hormone (GH) and analogues was observed.

Precision

Intra-Assay: CV<10%

Inter-Assay: CV<12%

Test Principle

This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific to growth hormone has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled growth hormone and unlabeled growth hormone (Standards or samples) with the pre-coated antibody specific to growth hormone. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of growth hormone in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of growth hormone in the sample.

Kit Components

96-well strip plate, 1x Plate

Standard, 2x vial

Detection Reagent A, 1x120ul

Detection Reagent B, 1x120ul

TMB Substrate, 1x9ml

Wash Buffer (30X), 1x20ml

Standard Diluent, 1x20ml



Assay Diluent A, 1×12ml
Assay Diluent B, 1×12ml
Stop Solution, 1×6ml

Storage and Stability

Store all components at 4°C. Stable for 6 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Storage

4°C/-20°C

Tests

46.2pg/ml

Sensitivity

50ul

Sample Volume

Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

Sample Matrix

123.5-10,000pg/m

Detection Range

Colorimetric

Antigen Source

96