CREATIVE BIOMART®
Assay Kit

Iron Assay Kit II

Product Information

Cat.No. Kit-0481

Product Overview

Iron Assay Kit is used for measuring ferrous and/or ferric ion in samples.

Description

Iron is essential to nearly all known organisms. It is generally stored in the centre of metalloproteins, in the heme complex, and in oxygen carrier proteins. Inorganic iron also contributes to redox reactions in the iron-sulfur clusters of many enzymes, such as nitrogenase and hydrogenase. The Iron Assay Kit provides a simple convenient means of measuring Ferrous and/or Ferric ion in sample. In the assay, ferric carrier protein will dissociate ferric into solution in the presence of acid buffer. After reduction to the ferrous form (Fe2+), iron reacts with Ferene S to produce a stable colored complex and give absorbance at 593 nm. A specific chelate chemical is included in the buffer to block copper ion (Cu2+) interference. The kit measures iron in the linear range of 0.4 to 20 nmol in 50 μL sample, or 8 μM to 400 μM iron concentration in various samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge vials prior to opening. Read the entire protocol before performing the assay.

Kit Components

Iron Assay Buffer 25 mLIron Probe 12 mLIron Reducer 0.7 mLIron Standard (100 mM) 0.1 mL

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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