CREATIVE BIOMART®
Assay Kit

Zinc Assay Kit II

Product Information

Cat.No.

Kit-0851

Product Overview

Zinc Assay Kit is a quantitative colorimetric determination of zinc at 560 nm.

Description

Zinc, a metallic chemical element, symbol Zn and atomic number 30 is chemically similar to Magnesium due to its similar size and sole oxidation state of +2. Zinc is an essential mineral of great biological significance since many enzymes require it as an essential cofactor. Examples of zinc"s biological roles include signal transduction, gene expression, regulation of apoptosis, synaptic plasticity and prostate gland function. Zinc Assay Kit is a convenient colorimetric assay in which Zinc binds to a ligand with development of absorbance at 560nm. It can be used with biological samples such as serum, plasma, csf or urine.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at +4°C and protect from light. Read the entire protocol before performing the assay. Synthetic rubber and glass can contain zinc which may leach into samples. For highest accuracy all glassware should be washed with dilute HCl, rinsed with distilled water and dried prior to use. Sample tubes such as Vacutainer and similar devices should be sealed with Parafilm rather than the butyl rubber stopper. Chelators such as EDTA will give artifactually low Zinc levels and should be avoided. Heparin, citrate and oxalate are acceptable anticoagulants. Most blood zinc (80%) is contained in erythrocytes and hemolysis will release large amounts into the serum. Abnormally high serum values obtained suggest the collection of another sample and retesting.

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Kit Components

Zinc Reagent 1. Cap code: WM. 16 mlZinc Reagent 2. Cap code: amber. 4 ml7% TCA. Cap code: clear. 5 mlZinc Standard (50 mM). Cap code: yellow. 0.1 ml

Detection method Colorimetric

Compatible Sample Types

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

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