

Zinc Assay Kit II

Cat. No. Kit-0851 **Lot. No.** (See product label)

SPECIFICATION

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

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sample and retesting.

Kit Components

Zinc Reagent 1. Cap code: WM. 16 ml
Zinc Reagent 2. Cap code: amber. 4 ml
7% TCA. Cap code: clear. 5 ml
Zinc 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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