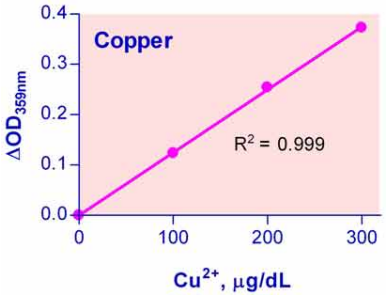
CD Copper Assay Kit

Catalog Number: AKBA564

Size: 250 tests

Price: Online Inquiry



Product Information

Product Name	CD Copper Assay Kit
Applications	For quantitative determination of copper(II) ion and evaluation of drug effects on Cu metabolism.
Features	Sensitive and accurate. Linear detection range 7 µg/dL (1.0 µM) to 300 µg/dL (47 µM) copper in a 96-well plate assay. Simple and high-throughput. The simple procedure can be readily automated as a high-throughput assay in 96-well plates for thousands of samples per day. Improved reagent stability and versatility. The optimized formulation has greatly enhanced the reagent and signal stability. Cuvet or 96-well plate assay.
Detection Method	OD359nm
Sample Type	Biological, environment, food, and beverage
Species	All
Assay Time	10 min
Limit of Detection	7 µg/dL (1.0 µM)
Expiration Date	12 months
Description	Copper is an essential trace element. Copper-containing enzymes play important roles in iron and catecholamine metabolism, free radical scavenging, and in the synthesis of hemoglobin, elastin, and collagen. Copper is mainly present in caeruloplasmin in the liver. Low levels of copper have been associated with mental retardation, depigmentation, anaemia, hypotonia, and scorbutic changes in bone. Levels of copper are a key diagnostic indicator of diseases such as Wilson's disease, microcytic hypochromic anemia, and bone disease due to reduced collagen synthesis. Simple, direct, and automation-ready procedures for measuring copper concentrations find wide applications in research, drug discovery, and environmental monitoring. CD copper assay kit is designed to measure copper with no or minimal sample treatment. The improved method utilizes a chromogen that forms a colored complex specifically with copper ions. The intensity of the color, measured at 359nm, is directly proportional to the copper concentration in the sample. The optimized formulation substantially reduces interference by substances in the raw samples.
Shipping Conditions	Shipping: RT
Storage	Storage: 4°C upon receipt

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