CREATIVE BIOMART®
Assay Kit

BCP Albumin Assay Kit

Product Information

Cat.No. Kit-0127

Product Overview

BCP Albumin Assay Kit is a quantitative colorimetric albumin determination at 610 nm.

Description

Albumin is the most abundant plasma protein in human. It accounts for about 60% of the total serum protein. Albumin plays important physiological roles, including maintenance of colloid osmotic pressure, binding of key substances such as long-chain fatty acids, bile acids, bilirubin, haematin, calcium, magnesium. It has anti-oxidant and anticoagulant effects, and also acts as a carrier for nutritional factors and drugs, as an effective plasma pH buffer. Serum albumin is a reliable prognostic indicator for morbidity and mortality, liver disease, nephritic syndrome, malnutrition and protein-losing enteropathies. High levels are associated with dehydration.

Applications

Direct Assays: albumin in serum, urine, biological preparations.Drug Discovery/Pharmacology: effects of drugs on albumin metabolism.

Usage

For research use only (RUO)

Storage

Store Reagent and standard at 4°C and -20°C, respectively. See expiry dates on labels.

Kit Components

Reagent 50 mLAlbumin standard 2 mL 5 g/dL BSA

Detection method Colorimetric

Compatible Sample Types

biological preparations, serum, urine

Features & Benefits

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Sensitive and accurate: Use as little as 20 μL samples. Detection range 0.3 g/dL (45 μM) to 5 g/dL (750 μM) albumin in 96-well plate assay.Simple and high-throughput: The procedure involves addition of a single working reagent and incubation for 5 min. Can be readily automated as a high-throughput assay for thousands of samples per day.Improved reagent stability and versatility: The optimized formulation has greatly enhanced reagent and signal stability. Cuvet or 96-well plate assay.Low interference in biological samples. No pretreatments are needed. Assays can be directly performed on raw biological samples i.e., in the presence of lipid and protein.

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