CREATIVE BIOMART®
Assay Kit

Hemoglobin Assay Kit

Product Information

Cat.No. Kit-0439

Product Overview

Hemoglobin Assay Kit is a colorimetric determination of total hemoglobin at 400 nm.

Description

Hemoglobin (Hb) is made of four globin chains each carrying a heme group. It is carried by red blood cells and transports oxygen from the lungs to the peripheral tissues to maintain the viability of cells. Quantitation of blood hemoglobin has been a key diagnostic parameter for various diseases such as anemia, polycythemia and dehydration.Simple, direct and automation-ready procedures for measuring hemoglobin concentration are becoming popular in Research and Drug Discovery. Hemoglobin Assay Kit is based on an improved Triton/NaOH method, in which the hemoglobin is converted into a uniform colored end product. The intensity of color, measured at 400 nm, is directly proportional to hemoglobin concentration in the sample. The optimized formulation exhibits high sensitivity and is ideal for measureing hemolysis in low hemoglobin samples (e.g. serum and plasma).

Applications

Direct Assays: total hemoglobin in serum, plasma, urine, etc.Pharmacology: effects of drugs on hemoglobin metabolism.Drug Discovery: HTS for drugs that modulate hemoglobin levels.

Usage

For research use only (RUO)

Storage

Store reagent and Calibrator at 4°C. Shelf life: 12 months after receipt.

Kit Components

HB Reagent 50 mLCalibrator 10 mL

Detection method Colorimetric

Compatible Sample Types

Blood, Plasma, Serum, Urine

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Features & Benefits

Sensitive and accurate: Linear detection range 0.9 – 200 mg /dL hemoglobin in 96-well plate assay.Simple and high-throughput: The "mix-and-read" procedure involves addition of a single working reagent and reading the optical density. Can be readily automated as a high-throughput assay in 96-well plates for thousands of samples per day.Safety: Reagents are non-toxic.Versatility: Assays can be executed in 96-well plate or cuvette.

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