CREATIVE BIOMART®
Assay Kit

Chromium Assay Kit

Product Information

Cat.No. Kit-0227

Product Overview

Chromium Assay Kit is a quantitative colorimetric determination of chromium (IV) at 480 nm.

Description

CHROMIUM is widely used in various industries such as electroplating, leather tanning, chrome paint, dying, hardened steel, ceramic and glass industry. Chromium exists in two stable oxidation states, hexavalent Cr(VI) and trivalent Cr(III). Cr(VI) is produced solely by industrial processes, whereas in nature, chromium exists in its trivalent form. Cr(III) is generally regarded as nontoxic due to poor absorption. Cr(VI) is considered a pulmonary carcinogen and has tested positive in genotoxicity tests. It is one of the most serious pollutants in many water streams due to its carcinogenic potential. Most countries apply a legal limit of 50-100 µg/L Cr in drinking water.

Applications

Determination of chromium in biological (serum, plasma etc), environmental (water, soil etc), food and beverage samples.

Usage

For research use only (RUO)

Storage

Store Reagent A at -20°C and other reagents at 2-8°C. Shelf life of 6 months after receipt.

Kit Components

Reagent A 300 µLReagent B 20 mLCr(VI) Standard (40 mg/L) 300 µL

Detection method Colorimetric

Compatible Sample Types

Beverage, Food, Plasma, Serum, Soil, Water

Features & Benefits

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CREATIVE BIOMART®
Assay Kit

Chromium Assay Kit

Sensitive and accurate. Linear detection range of 20 - 2000 µg/L Chromium.Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. No wash and reagent transfer steps are involved. Can be readily automated for processing thousands of samples per day.

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