CREATIVE BIOMART®
Assay Kit

Ferric Reducing Ascorbate Assay Kit

Product Information

Cat.No. Kit-0106

Product Overview

Ferric Reducing Ascorbate Assay Kit is used for detecting ascorbic acid.

Description

Ascorbic Acid (Vitamin C) plays an important role in many biological processes. It is a potent anti-oxidant, anti-inflammatory, anti-viral agent and an immune stimulant and is present in a wide variety of biological specimens. Due to the presence of a variety of other antioxidants in biological samples such as serum, most ascorbic acid assays show strong interference. The Ferric Reducing Ascorbate Assay Kit provides a rapid, simple, and sensitive means of detecting ascorbic acid in biological samples such as serum and other body fluids, tissue and cell extracts, growth media and food products. In this assay, Fe+3 is reduced to Fe+2 by any antioxidants present. The ferrous iron is chelated with a colorimetric probe to produce a product with a strong absorbance band which can be monitored between 545-600 nm. The addition of ascorbate oxidase to parallel samples removes any ascorbate present leaving a background value which is subtracted from the total to give ascorbate content. The assay can detect 0.2 to 20 nmol of ascorbic acid in various samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm FRASC Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Make sure the plate reader is turned on and ready to use.

Kit Components

FRASC Buffer 25 mLAscorbic Acid Probe 1 mLFeCl3 solution 1 mLAscorbate Oxidase (lyophilized) 1 vialAscorbic Acid Standard (20 µmole) 1 vial

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Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Food Sample, Growth Medium, Plasma, Serum, Tissue Culture Supernatant, Urine

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