

Ferric Reducing Ascorbate Assay Kit

Cat. No. Kit-0106 **Lot. No.** (See product label)

SPECIFICATION

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.

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Kit Components	FRASC Buffer 25 mLAscorbic Acid Probe 1 mLFeCl ₃ solution 1 mLAscorbate Oxidase (lyophilized) 1 vialAscorbic Acid Standard (20 µmole) 1 vial
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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