

## Ascorbic Acid Colorimetric Assay Kit II (FRASC)

**Cat. No.** Kit-1120    **Lot. No.** (See product label)

### SPECIFICATION

#### 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. FRASC 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<sup>3+</sup> is reduced to Fe<sup>2+</sup> 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.

#### Applications

The assay can detect 0.2 to 20 nmol of ascorbic acid in various samples.

#### Storage

-20°C

#### Shipping

Gel Pack

#### Size

100 assays

#### Kit Components

FRASC Buffer; Ascorbic Acid Probe; FeCl<sub>3</sub> solution; Ascorbate Oxidase (lyophilized); Ascorbic Acid Standard (20 μmole)

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<b>Target Species</b>	Mammalian
<b>Detection method</b>	Absorbance (545-600 nm)
<b>Features &amp; Benefits</b>	Simple procedure; takes ~ 30 minutes to complete the assay; Fast and convenient

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