

# Ascorbic Acid Assay Kit

**Cat. No.** Kit-2437    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**

Ascorbic acid (the L-enantiomer commonly known as vitamin C) is an important antioxidant found in living organisms and applied as additives in food and other industrial processes. By reacting with reactive oxygen species, it protects the cell from oxidative damages. method provides a simple, direct and high-throughput assay for measuring ascorbic acid. In this assay, ascorbic acid is oxidized by ascorbate oxidase resulting in the production of H<sub>2</sub>O<sub>2</sub> which reacts with a specific dye to form a pink colored product. The color intensity at 570nm or fluorescence intensity (530/585 nm) is directly proportional to the ascorbic acid concentration in the sample.

**Storage**                      -20°C

**Shipping**                     On Ice

**Size**                             100 tests

**Detection method**        OD570nm, or FL530/585nm

**Compatible Sample Types**    Serum, plasma, urine, saliva, milk, tissue, and cell culture

**Features & Benefits**        Use 20 µL samples. Linear detection range: colorimetric assay 6 to 1000 µM, fluorimetric assay 1 to 100 µM ascorbic acid.

**Assay time**                    10 min

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**Sensitivity**

OD, FL: 6, 1  $\mu$ M

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