

Ascorbic Acid Assay Kit

Cat. No. Kit-0105 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ascorbic Acid Assay Kit is a quantitative colorimetric/fluorometric ascorbic acid determination.
Description	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. Ascorbic Acid Assay Kit 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 ₂ O ₂ which reacts with a specific dye to form a pink colored product. The color intensity at 570 nm or fluorescence intensity (530/585 nm) is directly proportional to the ascorbic acid concentration in the sample.
Applications	Assays: ascorbic acid in biological samples such as serum, plasma, urine, saliva, milk, tissue, and cell culture. Drug Discovery/Pharmacology: effects of drugs on ascorbic acid metabolism.
Usage	For research use only (RUO)
Storage	Store all components at -20°C. Shelf life of 12 months after receipt.
Kit Components	Assay Buffer 10 mL Enzyme Mix 120 µL Dye Reagent 120 µL Standard 400 µL 10 mM ascorbic acid
Detection method	Colorimetric, Fluorometric

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Compatible Sample Types

Cell Culture, Milk, Plasma, Saliva, Serum, Tissue, Urine

Features & Benefits

Use 20 μ L samples. Linear detection range: colorimetric assay 6 to 1000 μ M, fluorimetric assay 1 to 100 μ M ascorbic acid.

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