

Fumarate Colorimetric Assay Kit

Product Information

Cat

Kit-2231

Cat.No.

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Product Overview

Fumarate ($\text{HO}_2\text{CCH}=\text{CHCO}_2\text{H}$) is an intermediate in the Kreb's cycle used by cells to metabolize food to form ATP. In the mammalian liver, Fumarate is also a product of the Urea cycle where its release in the cytosol leads to its conversion into malate and subsequently oxaloacetate while generating NADH in the cytosol. The human skin naturally produces fumaric acid when exposed to sunlight. In fact, fumaric acid esters have been used to treat psoriasis, possibly due to an impaired production of fumaric acid in the skin. Fumaric acid has also been used in beverages, baking powders and candy. Fumarate Assay Kit provides a convenient tool for sensitive detection of the fumarate in a variety of samples. The fumarate Enzyme Mix recognizes fumarate as a specific substrate leading to proportional color development. The amount of fumarate can therefore be easily quantified using a colorimetric assay ($\lambda = 450$ nm). It can detect as low as 1 nmol of fumarate per well (20 μM).

Applications

Kit can detect as low as 1 nmol of fumarate per well (20 μM).

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

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Fumarate Colorimetric Assay Kit

Fumarate Assay Buffer; Fumarate Enzyme Mix; Fumarate Developer; Fumarate Standard (0.1 M)

Target Species

Mammalian

Detection method Absorbance (450 nm)

Features & Benefits

Simple procedure; takes ~ 40 minutes; Fast and convenient

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