CREATIVE BIOMART®
Assay Kit

Fumarate Colorimetric Assay Kit

Product Information

Cat

Kit-2231

Cat.No. Kit-2231

Product Overview

Fumarate (HO2CCH=CHCO2H-) 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 (λ = 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

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

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Fumarate Colorimetric Assay Kit

Target Species	
Mammalian	
Detection method	Absorbance (450 nm)
Features & Benefits	
Simple procedure; takes ~ 40 minutes; Fast and convenient	

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA