CREATIVE BIOMART®
Assay Kit

D-Gluconate (D-Gluconic Acid) Colorimetric Assay Kit

Product Information

Cat.No.

Kit-2157

Product Overview

D-Gluconate (Gluconic Acid) Assay kit is a sensitive, fast and easy-to-use kit. In this assay, Gluconate is utilized by Gluconokinase to form D-Gluconate-6-P and ADP, which subsequently undergoes a series of reactions to form an intermediate that reduces Gluconate probe to give a product with strong absorbance at 450 nm. This assay kit can detect D-Gluconate (DGluconic Acid) level less than 2 µM in a variety of samples.

Size

100 assays

Description

D-Gluconic acid (C6H12O7) is a mild organic acid that is produced from glucose by glucose oxidase. It is abundantly present in plants, fruits and animal tissues. D-Gluconate (C6H11O7) is the salt or ester of Gluconic Acid. Due to its low toxicity, it is widely used in pharmaceutical, food, and other industries.

Applications

Measurement of D-Gluconate (D-Gluconic Acid) in various samples such as tissues, plants, fruits and wine

Storage

Store kit at -20°C, protect from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.Gluconate Assay Buffer: Warm to room temperature before use.Gluconate Converter, Gluconate Enzyme Mix, and Gluconate Developer: Reconstitute each with 220 μl Assay Buffer. Pipette up and down to dissolve completely. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Keep on ice while in use. Use within two months.ATP and Gluconate Probe: Reconstitute with 220 μl dH2O. Pipette up and down to completely dissolve. Store at -20°C. Use within two months.Gluconate Standard: Reconstitute with 100 μl dH2O to generate

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100 mM (100 nmol/μl) Standard solution. Store at -20°C. Use within two months. Keep on ice while in use.

Kit Components

Gluconate Assay Buffer: 25 mlGluconate Converter: 1 vial ATP: 1 vialGluconate Enzyme Mix: 1 vialGluconate Developer: 1 vialGluconate Probe: 1 vial Gluconate Standard: 1 vial

Detection method Absorbance (450 nm)

Compatible Sample Types

• Animal tissues (e.g. muscle etc.)• Wine (e.g. red wine and white wine)• Fruits (e.g. orange, apple etc.)

Features & Benefits

• Rapid & Easy-to-use• Can measure D-Gluconate lower than 2 μM in a variety of samples

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