

# Glutamate Dehydrogenase Activity Assay Kit

## Product Information

### Cat.No.

Kit-0358

### Product Overview

GDH Activity Assay Kit is used for measuring glucose dehydrogenase activity.

### Description

Glucose 1-dehydrogenase (NAD+) (EC 1.1.1.118) is an enzyme that catalyzes the chemical reaction: D-glucose + NAD+  $\leftrightarrow$  D-glucono-1,5-lactone + NADH + H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor. GDH Activity Assay Kit provides a convenient tool for sensitive detection of the GDH in a variety of samples. The GDH present in sample will recognize D-glucose as a specific substrate leading to a proportional color development. The activity of GDH can be easily quantified colorimetrically ( $\lambda = 450$  nm). This assay detects GDH activity as low as 0.01 mU with our unit definition.

### Target Species

Mammals

### Usage

For research use only (RUO)

### Storage

Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials prior to opening. Read the entire protocol before performing the assay.

### Kit Components

GDH Assay Buffer. Cap code: WM. 25 mLGlucose (2 M). Cap code: blue. 1 mLDeveloper (lyophilized). Cap code: red. 1 vialGDH Positive Control (lyophilized). Cap code: green. 1 vialNADH Standard (0.5  $\mu$ mol, Lyophilized). Cap code: yellow. 1 vial

### Detection method

 Colorimetric



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### Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Culture Medium, Fermentation Medium, Food Sample, Plasma, Serum, Tissue Culture Supernatant, Urine

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