

## 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<sup>+</sup>) (EC 1.1.1.118) is an enzyme that catalyzes the chemical reaction: D-glucose + NAD<sup>+</sup> ↔ D-glucono-1,5-lactone + NADH + H<sup>+</sup>. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> 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 ( $\lambda = 450 \text{ nm}$ ). 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 mL Glucose (2 M). Cap code: blue. 1 mL Developer (lyophilized). Cap code: red. 1 vial GDH Positive Control (lyophilized). Cap code: green. 1 vial NADH Standard (0.5  $\mu\text{mol}$ , Lyophilized). Cap code: yellow. 1 vial

**Detection method** Colorimetric



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

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### Compatible Sample Types

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

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