CREATIVE BIOMART®
Assay Kit

Alcohol Dehydrogenase Activity Assay Kit

Product Information

Cat.No. Kit-0051

Product Overview

ADH Activity Assay Kit is used for measuring alcohol dehydrogenase activity.

Description

Alcohol dehydrogenase (Alcohol DH, ADH) (EC 1.1.1.1) is a group of seven dehydrogenase enzymes that occur in many organisms and facilitate the interconversion between alcohols and aldehydes or ketones with the reduction of NAD+ to NADH. In humans and many other animals, they serve to break down alcohols which could otherwise be toxic; in yeast and many bacteria, some alcohol dehydrogenases catalyze the opposite reaction as part of fermentation. ADH Activity Assay Kit provides a convenient tool for sensitive detection of the ADH in a variety of samples. In the assay ADH will utilize isopropanol as a substrate leading to a proportional color development. The activity of ADH can be easily quantified colorimetrically (λ = 450 nm). This assay detects ADH activity as low as 0.01 mU in samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Allow ADH 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

ADH Assay Buffer. Cap code: WM. 25 mLSubstrate. Cap code: blue. 1 mLDeveloper (Lyophilized). Cap code: red. 1 vialADH Positive Control (Lyophilized). Cap code: green. 1 vialNADH Standard (0.5 μmol, Lyophilized). Cap code: yellow. 1 vial

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Detection method Colorimetric

Compatible Sample Types

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

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