CREATIVE BIOMART®
Assay Kit

Alcohol Dehydrogenase Detection Kit

Product Information

Cat.No. Kit-0052

Product Overview

Alcohol Dehydrogenase Detection Kit provides a convenient tool for sensitive detection of the Alcohol DH in a variety of samples. In the assay Alcohol DH will utilize isopropanol as a substrate leading to a proportional color development. The activity of ADH can be easily quantified colorimetrically (? = 450 nm). This assay detects ADH activity as low as 0.01 mU in samples.

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.

Applications

Functional Studies

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.DEVELOPER: Reconstitute Developer with 0.9 ml of ddH2O. Pipette up and down several times to completely dissolve the pellet into solution. (Do not vortex).

Kit Components

Components Identifier 100 testsADH Assay Buffer WM 1 x 25mlADH Positive Control (Lyophilized) Green 1 vialDeveloper (Lyophilized) Red 1 vialIsopropanol Blue 1 x 1mlNADH Standard (Lyophilized) Yellow 1 vial

Compatible Sample Types

Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Cell culture media

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Alcohol Dehydrogenase Detection Kit

Sensitivity
0.01 mU/well

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