



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 ($\lambda = 450 \text{ nm}$). 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 tests
ADH Assay Buffer WM 1 x 25ml
ADH Positive Control (Lyophilized) Green 1 vial
Developer (Lyophilized) Red 1 vial
isopropanol Blue 1 x 1ml
NADH Standard (Lyophilized) Yellow 1 vial

Compatible Sample Types



CREATIVE **BIOMART**[®]
Assay Kit

Alcohol Dehydrogenase Detection Kit

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

Sensitivity

0.01 mU/well

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