



## Alcohol Dehydrogenase Detection Kit

### Product Information

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#### Cat.No.

Kit-0052

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#### Product Overview

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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.

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#### Description

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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<sup>+</sup> 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.

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#### Applications

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Functional Studies

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#### Storage

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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 ddH<sub>2</sub>O. Pipette up and down several times to completely dissolve the pellet into solution. (Do not vortex).

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#### Kit Components

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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

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#### Compatible Sample Types

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

## Alcohol Dehydrogenase Detection Kit

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

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### **Sensitivity**

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0.01 mU/well

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