

## 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<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. 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 ( $\lambda = 450 \text{ nm}$ ). 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 mL Substrate. Cap code: blue. 1 mL Developer (Lyophilized). Cap code: red. 1 vial ADH Positive Control (Lyophilized). Cap code: green. 1 vial NADH Standard (0.5



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Assay Kit

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&mu;mol, Lyophilized). Cap code: yellow. 1 vial

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**Detection method** Colorimetric

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**Compatible Sample Types**

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

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