

# Alcohol Dehydrogenase Detection Kit

**Cat. No.** Kit-0052    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Description</b>	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.
<b>Applications</b>	Functional Studies
<b>Storage</b>	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).
<b>Kit Components</b>	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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<b>Compatible Sample Types</b>	Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Cell culture media
<b>Sensitivity</b>	0.01 mU/well

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