

Alcohol Dehydrogenase Detection Kit

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

SPECIFICATION

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 ddH ₂ O. 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

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Compatible Sample Types	Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Cell culture media
Sensitivity	0.01 mU/well

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