

Ethanol Assay Kit

Cat. No. Kit-0328 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ethanol Assay Kit is a colorimetric determination of ethanol at 580 nm.
Description	Alcoholic drinks are among the daily consumed beverages. Studies have shown heavy alcohol consumption may lead to various forms of liver diseases and to increased mortality rates. Quantitative determination of alcohol (ethanol, C ₂ H ₅ OH) finds applications in basic research, drug discovery, clinic studies and winery. Simple, direct and automation-ready procedures for measuring ethanol concentration are very desirable. Ethanol Assay Kit is based on an improved dichromate method, in which dichromate is reduced by ethanol to a bluish chromic (Cr ³⁺) product. The intensity of color, measured at 580 nm, is a direct measure of the alcohol concentration in the sample. The optimized formulation substantially reduces interference by substances in the raw samples and exhibits high sensitivity.
Applications	Ethanol determination in alcohol containing samples such as beverages (e.g. wine, beer) and yeast cultures. For samples containing less than 0.1% alcohol such as serum or plasma, Ethanol Assay Kit is recommended.
Usage	For research use only (RUO)
Storage	The kit is shipped at room temperature. Store reagents at room temperature and the ethanol standard at 4°C. Shelf life: 12 months after receipt.
Kit Components	Reagent A 50 mL Reagent B 50 mL 10% TCA 50 mL Standard 2 mL 10% (v/v) ethanol
Detection method	Colorimetric

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**Compatible Sample
Types**

Plasma, Serum

Features & Benefits

Sensitive and accurate: Detection range 0.04 – 2% alcohol in 96-well plate assay. Convenient and high-throughput: The procedure involves adding a single working reagent, incubation for 8 min, adding a Stop Reagent, and reading the optical density. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day. Versatility: Assays can be executed in 96-well plate or cuvet.

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