CREATIVE BIOMART®
Assay Kit

# Ethanol Assay Kit

## Product Information

**Cat.No.** Kit-0328

**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, C2H5OH) 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 (Cr3+) 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 mLReagent B 50 mL10% TCA 50 mLStandard 2 mL 10% (v/v) ethanol

**Detection method** Colorimetric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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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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