abcam

Product datasheet

Ethanol Assay Kit ab65343

37 References 5 图像

概述

说明

产品名称 Ethanol Assay试剂盒

检测方法 Colorimetric/Fluorometric

样**品**类型 Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts

检测类型 Quantitative

灵敏度 > 10 nM

范围 2 μM - 200 μM

检测时间 1h 00m

产品概述 Ethanol Assay Kit ab65343 provides a simple, rapid, and sensitive method for accurate

quantification of ethanol concentration in a variety of biological samples such as serum, plasma,

other body fluids, foods, beverages and growth media.

In the ethanol assay protocl, alcohol oxidase oxidizes ethanol to generate H_2O_2 which reacts with a probe to generate color (absorbance max 570 nm) and fluorescence (Ex/Em 535/587 nm).

The kit detects 0.1-10 ppm alcohol (~10-800 nM).

Ethanol assay protocol summary:

- add samples and standards to wells
- add reaction mix and incubate for 30 min at 37°C
- analyze with microplate reader

This product is manufactured by BioVision, an Abcam company and was previously called K620 Ethanol Colorimetric/Fluorometric Assay Kit. K620-100 is the same size as the 100 test size of

ab65343.

PLEASE NOTE: Extreme care should be taken to ensure that no alcohol vapors (ethanol, methanol, propanol) are in the laboratory air where this assay is to be performed. Alcohol vapors in the air will be rapidly absorbed by kit components resulting in very high background making the kit unusable. Laboratories where HPLC equipment and solvents are standing or where alcohol is used to wipe down laboratory benches or equipment are inappropriate locations to perform this

assay.

平台 Microplate reader

1

存放说明

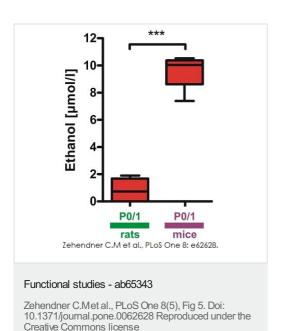
Store at -20°C. Please refer to protocols.

组 件	100 tests	2000 tests
Wash Buffer I	1 x 25ml	20 x 25ml
Ethanol Enzyme Mix	1 vial	20 vials
Ethanol Standard	1 x 500µl	20 x 500μl
OxiRed Probe	1 x 200µl	20 x 200µl

相关性

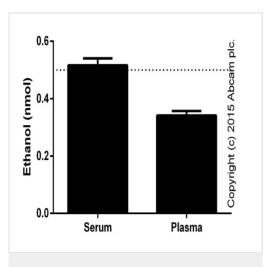
Alcohol (ethanol C_2H_5OH) is a clear colorless liquid rapidly absorbed from the gastrointestinal tract and distributed through the body. Ethanol has a depressive effect on the central nervous system and because of its psychoactive effects, it is considered a drug. Ethanol is metabolized by the body as an enerfy-providing carbohydrate nutrient, as it metabolized into acetyl CoA, an intermediate common with glucose than can be used for energy in the citric acid cycle (TCA) or for biosynthesis. Ethanol within the human body is converted into acetaldehyde by alcohol dehydrogenase and then into acetic acid by acetaldehyde dehydriogenase. Acetaldehyde, the product of the first step of the alcohol breakdown, is linked to most of the toxic clinical effects of alcohol.

图片



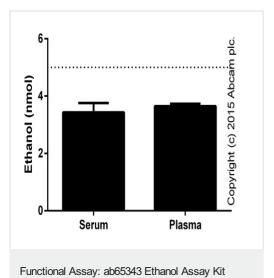
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Ethanol in blood plasma was analyzed using ethanol assay kit (ab65343). Ethanol concentrations were determined 60 minutes after urethane administration in P0/1 mice and rats.

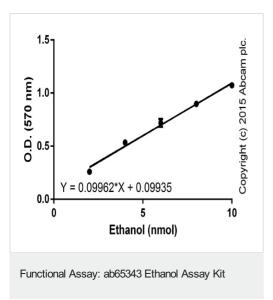


0.5 nmol of ethanol was added to diluted human biological fluids (1/10) and spiked samples were measured fluorimetrically (background subtracted, duplicates; +/- SD).

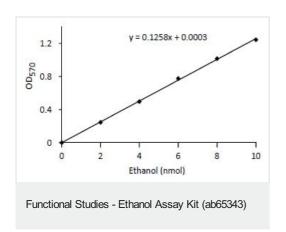




5 nmol of ethanol was added to diluted human biological fluids (1/10) and spiked samples were measured colourimetrically (background subtracted, duplicates; +/- SD).



Standard curves with background signal subtracted (duplicates; +/-SD).



Ethanol Standard Curve (Background subtracted). Expected background (0 nmole EtOH standard) for the standard curve can be around ~0.6-0.7 OD, with a typical dynamic range of 0.7-1.2 after background subtraction. Ethanol standard was diluted as described and the assay was performed according to the kit instructions.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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