

Methanol Assay Kit (fluorescence)

Cat. No. KITZ-040 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Methanol is found at very low levels in alcoholic beverages. Small amounts of methanol are present in normal, healthy human individuals. However, higher levels of methanol are toxic. Methanol poisoning typically occurs following ingestion of a methanol-containing product. The basis of the toxic effects of methanol is attributed to format, to which methanol is eventually converted. Elevated format levels can lead to confusion, blindness, and death. Due to its high toxicity, methanol is used as an additive in many industrial alcohol products, to prevent human consumption. Methanol Assay Kit provides simple and sensitive procedure for measuring methanol in various sample types. Methanol concentration is determined via a coupled enzymatic reaction. The fluorescence intensity, measured at $\lambda_{ex}=535\text{nm}/\lambda_{em}=590\text{nm}$, is proportional to the amount of methanol present in the sample. The linear ranges of this kit are 0.5–10nmol.

Size

200 fluorometric tests

Storage

Store at -20 °C

Shipping

Dry ice

Kit Components

Assay Buffer 50 mL
Methanol Standard 1 mL
Enzyme I 100 μL
Enzyme II 1 vial
Developer 300 μL

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Probe 800 μ L

**Materials Required
but Not Supplied**

96-well black flat-bottom plates
Fluorescence ($\lambda_{\text{ex}} = 535 \text{ nm}/\lambda_{\text{em}} = 590 \text{ nm}$) plate reader
Fume Hood

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