

Diamine Oxidase (DAO) Activity Assay Kit

Cat. No. KITZ-034 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

DAO (EC1.4.3.6) is widely found in animals (intestinal mucosa, lung, liver, kidney, etc.), plants, and microorganisms. Catalytic oxidation of polyamines to aldehydes, whose activity is closely related to nucleic acid and protein synthesis, can reflect the integrity and damage degree of the intestinal mechanical barrier.

DAO catalyzed cadaverine to produce aldehydes and hydrogen peroxide, and Fe^{2+} in potassium ferricyanide oxidized by H_2O_2 to produce Fe^{3+} . Fe^{3+} reacted with 4-amino-antipyrine and phenol to produce red quinones with characteristic absorption peaks at 505nm. The activity of DAO was calculated by measuring the absorbance value at 505nm.

Size

100T/48S

Storage

2-8°C

Shipping

On Ice

Kit Components

Extraction reagent: Liquid 60 mL×1. Store at 2-8°C.
 Reagent I: Liquid 2 mL×1. Store at 2-8°C.
 Reagent : Liquid 15 mL×1. Store at 2-8°C.

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Reagent : Liquid 5 mL×1. Store at 2-8°C.

Standard goods: Liquid 102 µL×1. Store at 2-8°C. 1mol/L (1000µmol/mL) hydrogen peroxide

solution was obtained by adding 898µL distilled water before use and stored at 2-8°C for 4 weeks.

**Materials Required
but Not Supplied**

Spectrophotometer/Microplate reader, mortar/homogenizer/cell ultrasonic crusher, centrifuge, constant temperature foster box/water-bath, centrifuge, micro quartz cuvette/96 well flat-bottom plate, ice and distilled water.

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