

GABA Aminotransferase (GABA-T) activity assay kit

Cat. No. KITZ-083 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

γ-aminobutyric acid transaminase (GABA-T, EC 2.6.1.96) is one of the key enzymes in the GABA shunt pathway, catalyzing the degradation and conversion of GABA. This kit uses γ-aminobutyric acid transaminase (GABA-T) to catalyze the reaction between pyruvate and GABA, producing succinic semialdehyde and alanine. By measuring the decrease in GABA, the enzyme activity of GABA-T can be determined.

Reaction equation: 4-aminobutanoate + pyruvate = succinate semialdehyde + L-alanine

Size 48 Samples

Storage 4°C

Shipping Ice pack

Kit Components

Extraction Solution: Liquid, 60mL × 1 bottle, stored at 4°C.

Reagent 1: Powder, mg × 1 vial, stored at 4°C.

Before use, shake the vial to bring the powder to the bottom, then add 3mL of Reagent 3 to dissolve and prepare for use.

Reagent 2: Powder, mg × 1 vial, stored at 4°C.

Before use, shake the vial to bring the powder to the bottom, then add 4.5mL of Reagent 3 to dissolve and prepare for use.

Reagent 3: Liquid, 8mL × 1 bottle, stored at 4°C.

Reagent 4: Liquid, 11mL × 1 bottle, stored at 4°C.

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Reagent 5:

A: Liquid, 8mL × 3 bottles

B: Liquid, 2mL × 1 vial

Stored at 4°C.

Before use, take 0.55mL of B liquid and add it to one bottle of A liquid, mix well and use as Reagent 5. Mixed Reagent 5 should be used within half a month.

Reagent 6: Liquid, 10mL × 1 bottle, stored at 4°C.

Standard: Powder, mg × 1 vial, stored at 4°C. This reagent is used if a new calibration curve needs to be prepared.

**Materials Required
but Not Supplied**

Microplate reader, 96-well plate, water bath, centrifuge, adjustable pipette, mortar, ice, and distilled water.

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