CREATIVE BIOMART®
Assay Kit

Phenylalanine Ammonia Lyase Activity Assay Kit (Colorimetric)

Product Information

ShortName

Phenylalanine Ammonia Lyase Activity Assay Kit (Colorimetric)

Size

100 Assays

Product Overview

Phenylalanine ammonia lyase (PAL) is a key enzyme in the metabolism of phenylpropanes in plants. It is closely related to the synthesis of some important secondary substances such as lignin, isoflavones and flavonoid, and plays an important role in the normal growth and development of plants and the process of resisting the invasion of bacteria. Phenylalanine ammonia lyase (PAL) can catalyze L-phenylalanine to produce trans-cinnamic acid and ammonia, and trans-cinnamic acid has the maximum absorption peak at 290 nm. PAL activity can be calculated by measuring the increase of OD value at 290 nm.

Storage

2-8°C

Shipping

On ice

Kit Components

Reagent 1 Extracting Solution 60 ml x 1 vial 2-8° C, 12 months;
Reagent 2 Buffer Solution 50 ml x 2 vials 2-8° C, 12 months;
Reagent 3 Substrate Powder x 4 vials 2-8° C, 12 months;
Reagent 4 Stop Solution 6 ml x 1 vial 2-8° C, 12 months;

Materials Required but Not Supplied

Spectrophotometer (290 nm), Tubes, Micropipettor, Vortex mixer, 37 ° C Incubator, Double distilled water

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