CREATIVE BIOMART®
Assay Kit

Plant Lipoxygenase (LOX) Activity Assay Kit

Product Information

Product Overview

Significance of Measurement: Lipoxygenase (LOX) is widely present in plant tissues and catalyzes the oxidation of unsaturated fatty acids, leading to membrane lipid peroxidation. It plays important roles in plant growth, development, senescence, and stress responses.
Principle of Measurement: LOX catalyzes linoleic acid oxidation, producing products with a characteristic absorbance peak at 234 nm. LOX activity is calculated based on the rate of absorbance increase at 234 nm.

Size

100t/96s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Technical Notes

For measurements using a 96-well plate, a 96-well UV plate must be used.

Materials Required but Not Supplied

Mortar, ice, benchtop centrifuge, UV–visible spectrophotometer or microplate reader, quartz cuvettes or 96-well plates, adjustable pipettes, and distilled water.

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