

Glycolate Oxidase Assay Kit

Glycolate Oxidase Activity Assay Kit

CATALOG #
AAA177835

PRODUCT SYNONYMS

Glycolate Oxidase; Glycolate Oxidase Activity Assay Kit; Glycolate Oxidase assay kit

PRODUCT SPECIFICATIONS

Samples	Plant tissue samples
Detection Range	0.3-350U/mL
Sensitivity	0.3U/mL
Precision	Average inter-assay CV: 8.2% Average intra-assay CV: 1.1%
Test Principle	Glycolate oxidase catalyzes sodium glycolate substrate to form glyoxylic acid, which reacts with phenylhydrazine hydrochloride to form phenylhydrazone glyoxalate. The substance has an absorption peak at 324nm, and its OD value is proportional to the concentration of phenylhydrazone glyoxalate in a certain range, and the amount of phenylhydrazone generated reflects the activity of glycolate oxidase.
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

ADDITIONAL INFORMATION

Related Product Information for Glycolate Oxidase assay kit	Background: Glycolate oxidase, a non-mitochondrial oxidase, is found in plant cell peroxisomes and can catalyze the oxidation of glycolic acid to glyoxylic acid and release hydrogen peroxide. Glyoxylic oxidase is one of the key enzymes in plant photorespiration, and its activity can be used as an important index to measure the intensity of plant photorespiration, which changes with plant development, mineral nutrition and disease susceptibility. Principle of the Assay: Glycolate oxidase catalyzes sodium glycolate substrate to form glyoxylic acid, which reacts with phenylhydrazine hydrochloride to form phenylhydrazone glyoxalate. The substance has an absorption peak at 324nm, and its OD value is proportional to the concentration of phenylhydrazone glyoxalate in a certain range, and the amount of phenylhydrazone generated reflects the activity of glycolate oxidase. Intended Uses: This kit can be used to measure glycolate oxidase activity in plant tissue samples.
Product Categories/Family for Glycolate Oxidase assay kit	Metabolism Assay Kit ; Enzymes

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/glycolate-oxidase/177835>