CREATIVE BIOMART®
Assay Kit

Glutamine Synthetase (GS) Activity Assay Kit

Product Information

Product Overview

Significance of Measurement: Glutamine synthetase (GS, EC 6.3.1.2) is a key enzyme in ammonia assimilation in plants. It catalyzes the conversion of ammonium ions and glutamate to glutamine, preventing ammonium toxicity and providing a major storage and transport form of nitrogen. Principle of Measurement: GS catalyzes the formation of glutamine in the presence of ATP and Mg²⁺. Glutamine is further converted to γ-glutamyl hydroxamate, which forms a red complex with ferric ions under acidic conditions. The complex exhibits maximum absorbance at 540 nm.

Size

100t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Synonyms

GS Kit

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Visible spectrophotometer or microplate reader, water bath, benchtop centrifuge, adjustable pipettes, quartz cuvettes or 96-well plates, mortar, ice, and distilled water.

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