



Glutamine Synthetase Activity Assay kit

GS (EC 6.3.1.2) mainly exists in plants and is one of the key enzymes of ammonia assimilation in organisms. It catalyzes the synthesis of glutamine from ammonium ions and glutamate, which can not only prevent excessive ammonium ions from affecting organisms. Toxicity, and glutamine is also the main form of ammonia storage and transportation.

GS catalyzes the synthesis of glutamine from ammonium ion and glutamate in the presence of ATP and Mg²⁺; glutamine is further converted to gamma-glutamyl hydroxamic acid, which forms a red complex with iron under acidic conditions. The complex has a maximum absorption peak at 540nm, which can be measured with a spectrophotometer.

Catalog No.	250091
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/1 year
Shipping	Gel Packs