

## Active Native Glutamine synthetase

Cat. No. GS-32 Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Native Glutamine synthetase (EC 6.3.1.2) was purified from Bacillus sp..
<b>Species</b>	Bacillus sp.
<b>Source</b>	Bacillus sp.
<b>Description</b>	Glutamine synthetase (GS) (EC 6.3.1.2) is an enzyme that plays an essential role in the metabolism of nitrogen by catalyzing the condensation of glutamate and ammonia to form glutamine: $\text{Glutamate} + \text{ATP} + \text{NH}_3 \rightarrow \text{Glutamine} + \text{ADP} + \text{phosphate}$ Glutamine Synthetase uses ammonia produced by nitrate reduction, amino acid degradation, and photorespiration. The amide group of glutamate is a nitrogen source for the synthesis of glutamine pathway metabolites.
<b>Form</b>	White to pale brownish lyophilized powder.
<b>Bio-activity</b>	≥15 U/mg
<b>Storage</b>	Store in tightly closed containers, desiccated, protected from light, at -20°C.

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