

Glutamine Synthetase (GST) from Microorganism

Product Information

Cat#	DIA-433
Source	Microorganism
Form	Freeze dried powder
Activity	≥ 15.0 U/mg
Isoelectric point	6.5
Unit Definition	One unit (U) is defined as the amount of enzyme which produces 1 μmol of phosphate per min at 37 °C and pH 7.0 under the conditions described below.
Storage	Below –20 °C
Enzyme Commission Number	EC 6.3.1.2
pH Stability	6.5–9.5
Michaelis Constant	1.5 × 10 ⁻² M (L-glutamate) 1.3 × 10 ⁻⁴ M (Ammonia) 8.7 × 10 ⁻⁴ M (ATP)
Optimum pH	ca. 7.0
Optimum temperature	60 °C
Thermal stability	Below 40 °C
Inhibitors	Methionine sulfoximine, carbamyl phosphate
Contaminants	Catalase ≤ 0.5 U/U%
Applications	For the determination of ammonia and ATP in clinical analysis.
Appearance	White to light yellow lyophilizate
Molecular Weight	ca. 900 kDa (Gel filtration)