



Certificate of Analysis

Product name: GLUTAMATE DEHYDROGENASE (EC 1.4.1.4)

Product code: # GLUTDH

Batch: 026.00122

Mfg Date: March 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 3500	3930	Passed
Specific Activity (U/mg of proteins) ¹	> 150	325	Passed

Unit definition²

One Unit of Glutamate Dehydrogenase is defined as the amount of enzyme required to produce one μ mole of NADP⁺ from NADPH per minute at 25°C under the following assay conditions:

Sodium phosphate buffer, pH 7.5	100 mM
NADPH	0.4 mM
EDTA	0.1 mM
NH ₄ Cl	200 mM
a-ketoglutaric acid	4.50 mM

References

¹ Determined as Ref.: Bradford M. M., *Analytical Biochemistry*, Vol. **72**: pp. 248-254 (1976).

² Sakamoto N. et al., *J. Of Bacter.* Vol **124** pp775-783 (1975).

Storage and use conditions

The enzyme is supplied as a lithium sulphate suspension and should be stored at +2/+8 °C. For assay, this enzyme should be diluted in 100 mM sodium phosphate buffer, pH 7.5 containing 1 mM EDTA. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: March 2025

Quality Assurance

Rosaria Cassese

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