



Certificate of Analysis

Product name: GLUTAMATE DEHYDROGENASE (EC 1.4.1.4)

Product code: # GLUTDH

Batch: 026.00124

Mfg Date: January 2024

| Tests | Specifications | Results | Comment |
|---|----------------|-------------|---------|
| Activity (U/ml) | > 3500 | 4141 | Passed |
| Specific Activity (U/mg of proteins) ¹ | > 150 | 210 | 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: January 2027

Quality Assurance

Rosaria Cassese

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