



Certificate of Analysis

Product name: D-MALATE DEHYDROGENASE (EC 1.1.1.83)

Product code: # D-MDH

Batch: 011.00221

Mfg Date: January 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 50	75.00	Passed
Specific Activity (U/mg of proteins) ¹	> 5	23.96	Passed

Unit definition²

One Unit of D-Malate Dehydrogenase is defined as the amount of enzyme required to produce one μ mole of NADH from NAD⁺ per minute at 25°C under the following assay conditions:

Tris/HCl buffer, pH 8.0	74 mM
D-Malic acid	0.57 mM
NAD ⁺	2.8 mM
KCl	37 mM
MgCl ₂	7.5 mM

References

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

² Knichel and Radler, *Eur. J. Biochem.* Vol. 123: pp. 547-552 (1982).

Storage and use conditions

The enzyme is supplied as an ammonium sulphate suspension and should be stored at +2/+8 °C. For assay, this enzyme should be diluted in 20 mM Tris/HCl buffer, pH 7.6 containing 5 mM MgCl₂. **Swirl to mix the enzyme suspension immediately prior to use.**

Exp. Date: January 2025

Quality Assurance

Rosaria Cassese

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