



Certificate of Analysis

Product name: L-MALATE DEHYDROGENASE (EC 1.1.1.37)

Product code: # L-MDH

Batch: 016.00223

Mfg Date: October 2023

Tests	Specifications	Results	Comment
Activity (U/ml)	> 25000	30882	Passed
Specific Activity (U/mg of proteins) ¹	> 1700	2154	Passed

Unit definition²

One Unit of L-Malate Dehydrogenase is defined as the amount of enzyme required for reduction of one μ mole of oxalacetate to malate per minute at 25°C under the following assay conditions:

Sodium phosphate buffer, pH 7.5	92 mM
Oxaloacetic acid	0.47 mM
BSA	0.46 mg/ml
NADH	0.38 mM

References

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

² Murphey et al., *J. Biol. Chem.*, vol. **242**: pp. 1548-1559 (1967).

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 100 mM sodium phosphate buffer, pH 7.5 containing 0.5 mg/ml BSA.

Swirl to mix the enzyme suspension immediately prior to use.

Exp. Date: October 2026

Quality Assurance
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