



## Certificate of Analysis

**Product name: L-MALATE DEHYDROGENASE (EC 1.1.1.37)**

**Product code: # L-MDH**

**Batch: 016.00122**

**Mfg Date:** April 2022

Tests	Specifications	Results	Comment
Activity (U/ml)	> 25000	<b>32099</b>	Passed
Specific Activity (U/mg of proteins) <sup>1</sup>	> 1700	<b>2114</b>	Passed

### Unit definition<sup>2</sup>

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

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

### References

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

<sup>2</sup> 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:** April 2025

Quality Assurance  
Rosaria Cassese

CPC BIOTECH S.r.l.  
Sede Legale e Amministrativa/Registered and account office:  
Via L. Galvani, 1  
20875 Burago di Molgora (MB) – Italia  
Tel. +39 039 6898029  
Fax. +39 039 6899774

Partita IVA 00751490962  
Codice Fiscale 03447450150  
R.E.A.1074257  
Registro Imprese di Monza e Brianza  
Cap. Soc. € 114.000,00 i.v.  
www.cpcbiotech.it