



Certificate of Analysis

Product name: D-MALATE DEHYDROGENASE (EC 1.1.1.83)

Product code: # D-MDH

Batch: 011.00123

Mfg Date: February 2023

Tests	Specifications	Results	Comment
Activity (U/ml)	> 50	61	Passed
Specific Activity (U/mg of proteins) ¹	> 5	17	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 Knichele 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: February 2026

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.
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