



CERTIFICATE OF ANALYSIS

PRODUCT NAME:	MALATE DEHYDROGENASE (MDH) Porcine
ACTIVITY:	Typically >500 u/mg @ 37C
CAS NO:	9001-64-3
CAT. NO:	I425-20
EC NO:	1.1.1.37
EXPIRATION:	2 years
FORM:	Lyophilized
MOLECULAR WEIGHT:	32662
SOURCE:	Porcine (Pig) Heart
STORAGE:	-20 C
SYNONYMS:	L-Malate: NAD ⁺ oxidoreductase,

Porcine Malate Dehydrogenase, L-Malate (MDH) Unit Definition: One unit will convert one micromole of oxaloacetate and NADH to L-Malate and NAD per minute at pH 7.5

Malate Dehydrogenase, L-Malate (MDH) is an enzyme in the citric acid cycle that catalyzes the conversion of malate into oxaloacetate (using NAD⁺) and vice versa (this is a reversible reaction). Malate dehydrogenase (MDH) is not to be confused with malic enzyme, which catalyzes the conversion of pyruvate using NADPH.

Malate Dehydrogenase enzyme (MDH) is used in coupled systems for determination of biological metabolites.

Malate Dehydrogenase, L-Malate (MDH) study: Malate Dehydrogenase enzyme is an indicator for the determination of the activity of glutamate oxaloacetate transaminase (GOT) (AST), ATP - citrate lyase and citrate synthase. Malate Dehydrogenase enzyme (MDH) activity in serum and cerebrospinal fluid (CSF) is clinically significant: Malate Dehydrogenase, L-Malate (MDH) ref: Sharpe, D.M., Wilcock, A.R. and Goldberg, D.M., Clin. Chem., 19, 240, 1973) /mdh.