We offer various packaging (protein concentration, activity, etc.) if necessary.

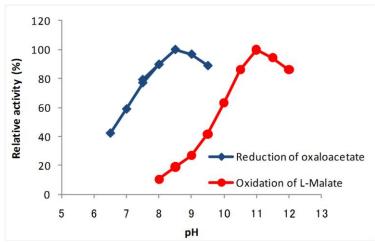
Enzyme	;	Malate dehydrogenase
Code	;	MDH-27-01
Lot No.	;	1-H201T
Protein conc.	;	mg/ml
Volume	;	ml
Form	;	50 mM Tris-HCl (pH 8.0), 50 mM NaCl
Storage	;	-20 °C
Activity	;	U/ml
Notes	;	For research use only.

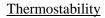
Data sheet

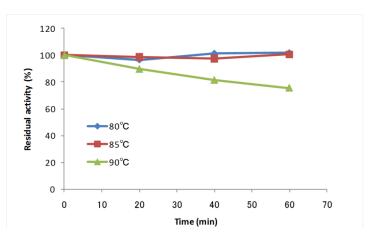
Activity measurement

Reaction mix (50 mM Tris-HCl (pH 8.5 @ 25 °C), 0.5 mM Oxaloacetate, 0.3 mM NADH and appropriate amount of the enzyme) was incubated at 37 °C and A_{340} was monitored. One unit is defined as the amount of the enzyme oxidizing 1 µmol of NADH (ε_{340} =6.22 mM⁻¹ cm⁻¹) per 1 minute using Oxaloacetate as a substrate.

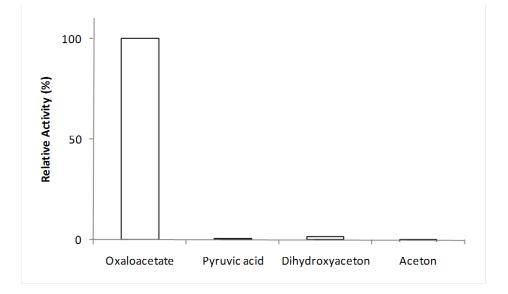












Kinetic parameters

(a) Reduction of oxaloacetate ($K_{\rm m}$ @37 °C, pH 8.5)

Oxaloacetate: 9.5 μM $\ NADH: 6.4 \ \mu M$

(b) Oxidation of Malate ($K_m @37 \ ^{\circ}C, pH 11$)

L-Malate: 26.2 μ M, D-Malate: 1.3 mM, NAD⁺: 35.2 μ M

