



Creative Enzymes

Diagnostic Enzymes

D-Lactate Dehydrogenase

Product Information

Cat#	TRA-049
Specification	10KU,100KU,500KU,1000KU
Description	Specifically catalyzes D-lactic acid dehydrogenase, used for clinical detection of intestinal dysbiosis or D-lactic acidosis.
Applications	For the development and large-scale preparation of reagents such as aspartate aminotransferase (AST) and alanine aminotransferase (ALT).
Form	White amorphous lyophilized powder
Source	Microorganisms
Activity	≥ 420.0 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to oxidize 1 μmol of NADH per minute under the following conditions.
Molecular Weight	45 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	6.5-7.0
Optimum temperature	45°C
pH Stability	5.5-10.0 (25°C, 16 h)
Thermal Stability	< 50°C (pH 7.0, 30 min)
Isoelectric Point	4.5
Km Value	2.2×10 ⁻⁶ M (pyruvate)
Inhibitors	Ag ⁺ , Hg ²⁺
Protectant	BSA
Storage	Store at -25°C to -15°C for 12 months maintains > 90% activity.

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