

ENZYMES

BY

SORACHIM

Lipoprotein Lipase from Pseudomonas sp.

LPL-311

SPECIFICATIONS

Product name	Triacylglycero-protein acylhydrolase
EC	3.1.1.34
Appearance	Light brown amorphous powder lyophilized
Activity	Grade III, 20 U/mg-solid or more (containing approx. 80% of stabilizers)
Contaminants	NADH oxidase $\leq 1.0 \times 10^{-3}\%$ Phosphatase $\leq 1.0 \times 10^{-3}\%$ Catalase $\leq 2.0 \times 10^{-2}\%$ Cholesterol oxidase $\leq 2.0 \times 10^{-3}\%$
Stabilizers	Mg ²⁺ , Na-cholate, bovine serum albumin
Stability	Stable at -20°C for at least one year
Molecular weight	approx. 134,000
Isoelectric point	5.95 ± 0.05
Inhibitors	Hg ²⁺ , Ag ⁺ , ionic detergents
Optimum pH	7.0 - 9.0
Optimum temperature	45 - 50°C
pH Stability	pH 7.0 - 9.0 (25°C, 20hr)
Thermal stability	below 55°C (pH 7.0, 10min)

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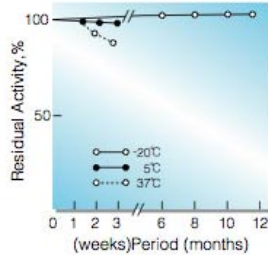


Fig.1. Stability (Powder form)
(kept under dry conditions)

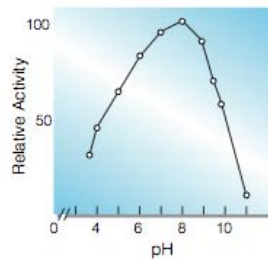


Fig.3. pH-Activity
(37°C, in 0.1M Britton-Robinson buffer)

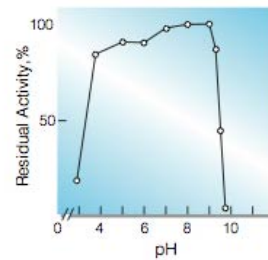


Fig.5. pH-Stability
(25°C, 20hr-treatment with 0.1M Britton-Robinson buffer)

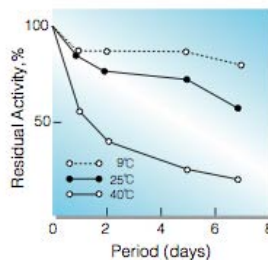


Fig.2. Stability (Liquid form)
(in 20mM K-phosphate buffer, pH7.5
(contg. 2.0mM MgCl₂, 0.5mM EDTA.Na₃, 0.005% NaN₃)
enzyme concn.: 4U/ml)

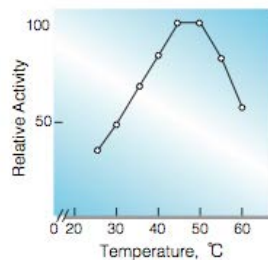


Fig.4. Temperature activity
(in 0.1M K-phosphate buffer, pH7.0)

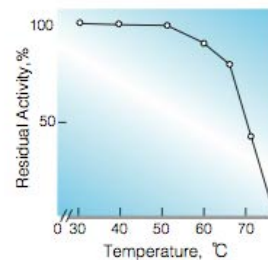


Fig.6. Thermal stability
(10min-treatment with 0.1M K-phosphate buffer, pH7.0)