

ENZYMES

BY

SORACHIM

Lipoprotein Lipase from Pseudomonas sp.

LPL-314

SPECIFICATIONS

Product name	Triacylglycero-protein acylhydrolase
EC	3.1.1.34
Appearance	Light brown amorphous powder lyophilized
Activity	Grade III, 1.0 U/mg-solid or more
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⁺ , bovine serum albumin
Stability	Stable at -20°C for at least one year
Molecular weight	approx. 134,000
Inhibitors	Hg ²⁺ , Cu ²⁺
Optimum pH	8.0
Optimum temperature	40 - 45°C
pH Stability	pH 5.5 - 10.0 (25°C, 20hr)
Thermal stability	below 40°C (pH 7.0, 15min)

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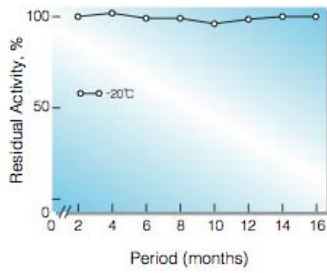


Fig.1. Stability (Powder form)
(kept under dry conditions)

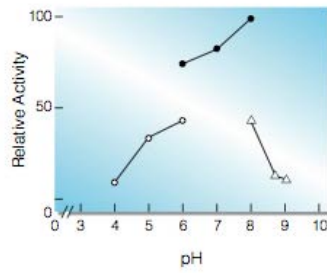


Fig.2. pH-Activity

[37°C in 0.1M buffer solution:
pH4.2-6.0, acetate; pH6.0-8.0,
K-phosphate; pH8.0-9.0, Tris-HCl]

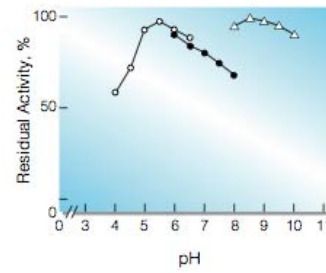


Fig.4. pH-Stability

[25°C, 20hr-treatment with 0.1M
buffer solution: pH4.0-6.5, acetate;
pH6.0-8.0, K-phosphate; pH8.0-10.0
Tris-HCl]

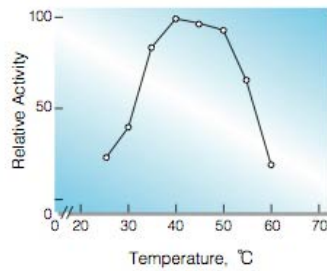


Fig.3. Temperature activity

[in 0.1M K-phosphate buffer, pH7.0]

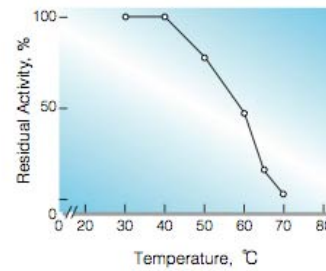


Fig.5. Thermal stability

[15min-treatment with 0.1M K-phosphate, pH7.0]
enzyme concn.:20 U/ml]