Tribioscience

Lipoprotein lipase, Enzyme Activity

	Catalog	∐nit	
	TBP0034-10MG	10 mg	
	TBP0034-50MG	50 mg	
Preparation and Specification Appearance: Light brown amo	20 rphous powder, lyophilized	1	
Activity: GradeIII 20U/mg-s	olid or more (containing ap	oprox. 80% of stabilizers)	
<u>Contaminants:</u> Phosphatase ≤1	.0×10 ⁻³⁰ ⁄0		
Catalase ≤2.0×	10 ⁻²⁰ /0		
NADH oxidase≤1.0×10⁻³0%		Triacylglycero-protein	acylhydrolase (EC 3.1.1.34)
Cholesterol ox	dase $\leq 2.0 \times 10^{-30}$ %	Triglyceride + 3H ₂ O ———	───► Glycerol + 3Fatty acid
Stabilizers: Mg++, Na-cholate,	BSA		
Properties Stability: Stable at -20°C for at	least Two years		
Molecular weight: approx. 134	,000		
Isoelectric point: 5.95±0.05			
Inhibitors: Hg++, Ag+, ionic det	ergents		
<u>Optimum pH:</u> 7.0-9.0			
Optimum temperature: 45-50°	С		

<u>pH Stability:</u> pH 7.0-9.0 (25°C, 20hr)

Thermal stability: below 55°C (pH 7.0, 10min)

Applications

This enzyme is useful for enzymatic determination of triglyceride in serum when coupled with L- α - glycerophosphate oxidase (G3O-321) and glycerol kinase (GYK-301, GYK-311). Usually, the reaction can be completed in 5 minutes at 37°C by using 2.5~3.0 units of the enzyme per test (3.0ml) at pH around 7.0.

For research use only