



Lipase

Catalogue No. LIPA-70-1461, 70-1461-01

Origin: *Chromobacterium viscosum*

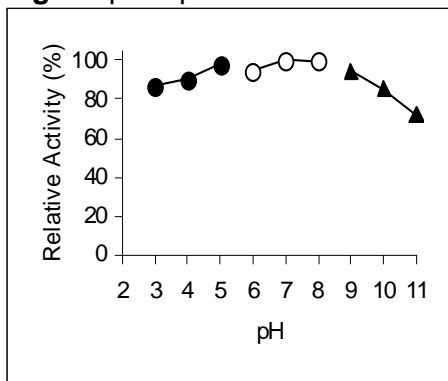
Specifications:

Appearance: Pale brown (Beige) to off-white powder
 Activity: > 2000 U/mg powder at 37°C
 Specific Activity: > 2500 U/mg protein at 37°C
 Contaminants: ≤ 0.01% NADH Oxidase
 ≤ 0.01% Catalase
 ≤ 0.01% Cholesterol Oxidase

Characteristics:

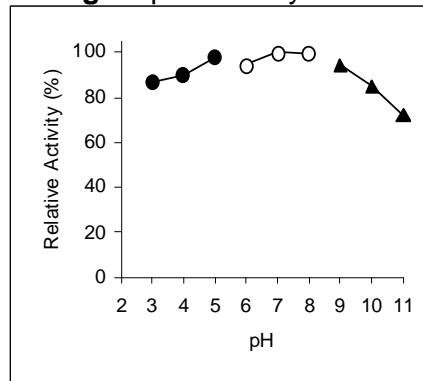
Molecular Weight:	120kDa (pH 3.7) (gel filtration)	
Isoelectric point:	pH 3.7 and 7.3	
Optimum pH:	3.0-10.0	See Fig. 1
pH stability:	4.0-10.0 (50°C, 60 min.)	See Fig. 2
Thermal stability:	Stable at 70°C and below (pH 7.0, 10 hr.)	See Fig. 3
Substrate specificity:		See Table 1
Lyophilised stability:	1 year at -20°C	

Fig. 1 pH Optimum



◆ : Mcllvaine buffer
 ◇ : Phosphate buffer
 ▲ : Borate buffer

Fig. 2 pH Stability

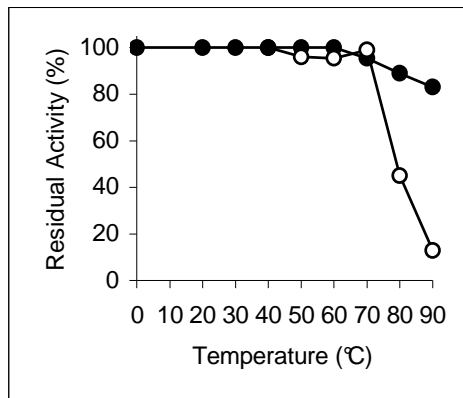


○ : 37°C, 24hr.
 ● : 50°C, 1hr.
 pH 3, 4, 5 Mcllvaine buffer
 pH 6, 7, 8 Phosphate buffer
 pH 9, 10, 11 Borate buffer



Lipase (Catalogue No. 1461)

Fig. 3 Thermal Stability



pH 7.0, 10 hrs.

○ : Lyophilized powder

● : Aqueous solution

Table 1. The substrate specificity of Lipase

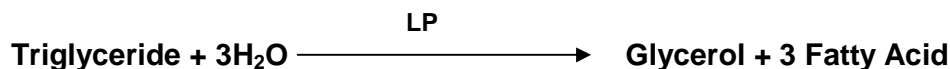
Substrate	Relative Activity (%)
Triolein	100
Tripalmitin	22
Trimyristin	53
Trilaurin	103
Tricaprin	166
Tricaprylin	312
Tricaproin	156
Tributylin	94
Tripropionin	22
Triacetin	38



Lipase
(Catalogue No. 1461)

Assay Principle:

Lipoprotein Lipase catalyses the following reaction:



The generation of Fatty acid is measured by titration.

Unit Definition:

One unit of activity is defined as the amount of enzyme that will catalyse the formation of 1.0 micromole of fatty acid per minute at 37°C under standard assay method conditions.

(See Analytical Method for full details)

International
50 Gibson Drive
Kings Hill, West Malling
Kent, ME19 4AF, UK
Phone: +44 (0) 1732 220022
Fax: +44 (0) 1732 220024/5

The Americas
31 New York Avenue
Framingham, MA
01701-9322
Phone: 800 332 1042
Fax: 800 762 6311