

SPECIFICATION SHEET

Product Name: Colipase
Catalog # CL01D1-E311H

Product Description: This small essential protein cofactor is a diagnostic grade reagent. It is useful for determination of lipase activity.

Storage and Stability: Product can be stored at dry 4°C for long-term storage (≥ 24 months).

Appearance	: Greyish-green amorphous powder, lyophilized	
Solubility	: Clear solution in water (C=1 mg/mL)	
Contaminants	: Protease	≤100 Unit/mg lyophilizate
Molecular Weight	: 11.7 kDa	
Isoelectric Point	: 7.75	
pH Value	: 5.0-7.0 (1 mg/mL water)	
Protein (BCA)	: 0.8 ± 0.5 mg/mL lyophilizate	
Optimum pH	: 8.8	(Figure 1)
Optimum Temperature	: see Figure 2	(Figure 2)
pH Stability	: pH 3.0~11.0 (25°C, 1 hr)	(Figure 3)
Thermal Stability	: 25-80°C (10 min)	(Figure 4)

Figure 1. At different pH values

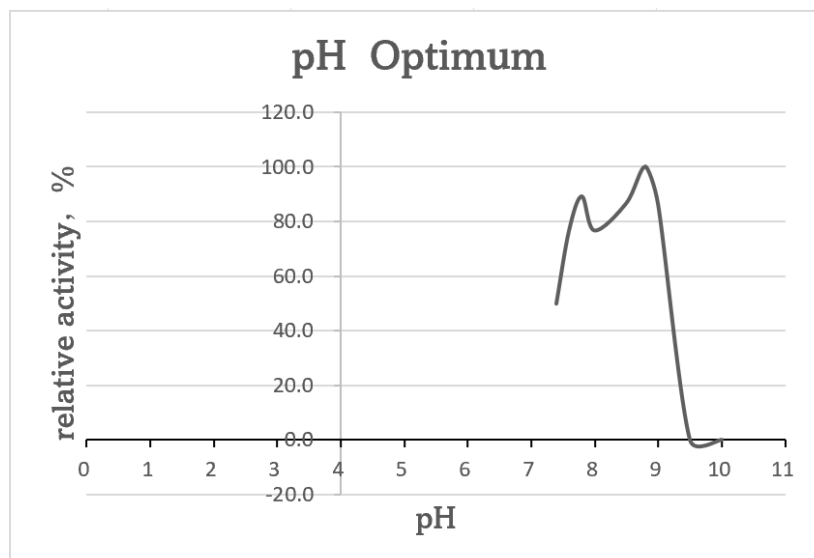


Figure 2. At different temperatures

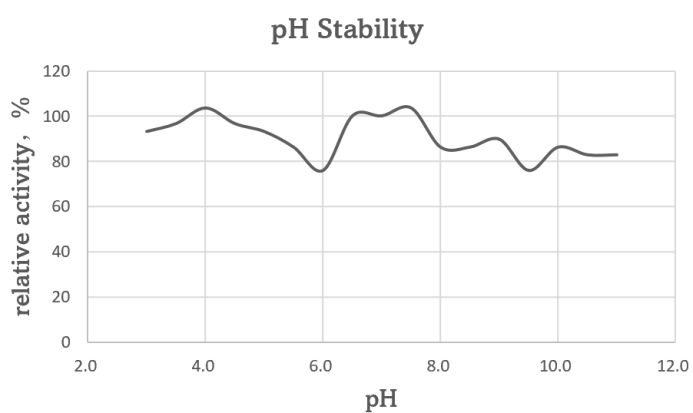
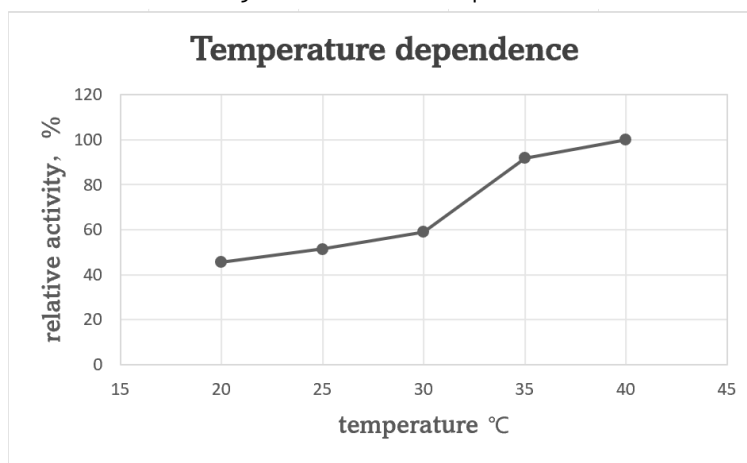


Figure.3 Incubation:

25°C, 60 min.

pH 3.0-5.0: acetate buffer, 0.1 M.

pH 5.5-6.0: MES buffer, 0.1 M

pH 6.5-7.5: PIPES buffer, 0.1 M

pH 8.0-9.0: Bicine buffer, 0.1 M

pH 9.5-11.0: Gly-NaOH buffer, 0.1 M

0.73 mg colipase/mL

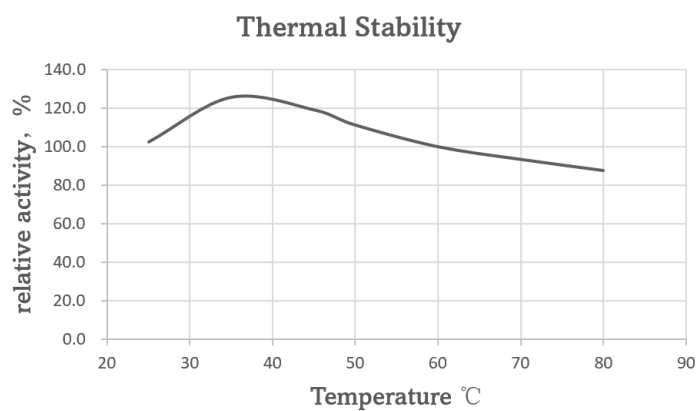


Figure.4 Incubation:

10 min.

Water

0.73 mg colipase/mL