

Cholesterol Esterase Type I (CEH I)

Catalogue No. 70-6201-01

ORIGIN

Candida rugosa

SPECIFICATIONS

Appearance	Beige powder
CEH I activity	1.7 - 3.3 U/mg powder 37°C
Lipase activity	0.27 - 1.63 U/mg powder at 37°C
Protein	≤26.0%
Solution quality	Clear solution, may contain a few small particles
Purity (SDS-PAGE)	Matches reference
Contaminants	
o Glucose Oxidase	<0.002 U/mg powder

CHARACTERISTICS

Molecular weight	107kDa
Isoelectric point	4.3 ± 0.1
K _m value	0.4mM (Cholesteryl Linoleate)
Optimum pH (Fig. 1)	7.3 - 7.7
Optimum temp. (Fig. 2)	35 - 37°C
pH stability (Fig. 3)	4.5 - 7.5 (37°C, 1hr.)
Thermal stability (Fig. 4)	Below 48°C (2hr.)
Lyophilised stability	Store at -20°C. Retest after 24 months

FIG.1 Optimum pH

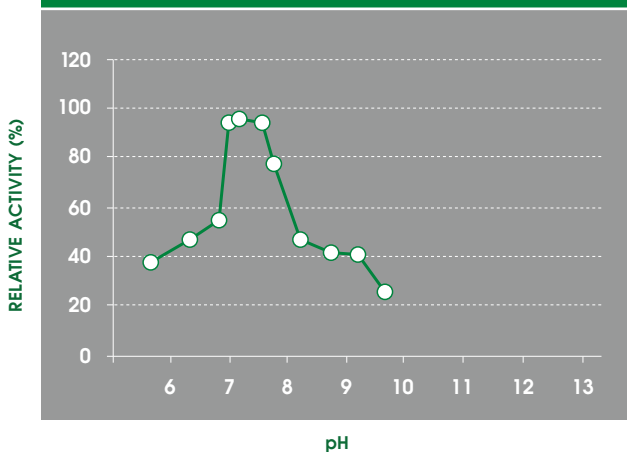


FIG.2 Optimum Temperature

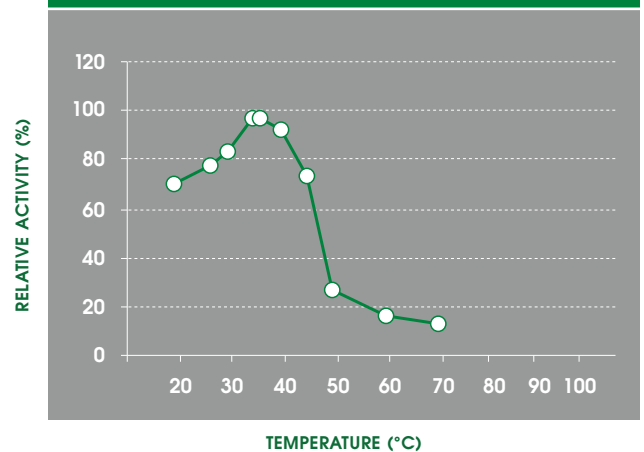


FIG. 3 pH Stability

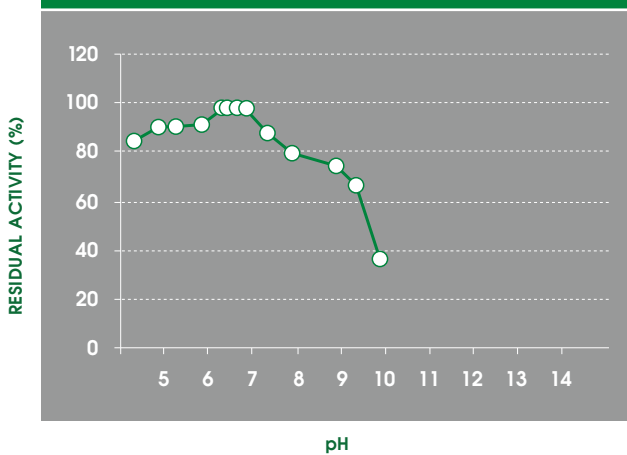
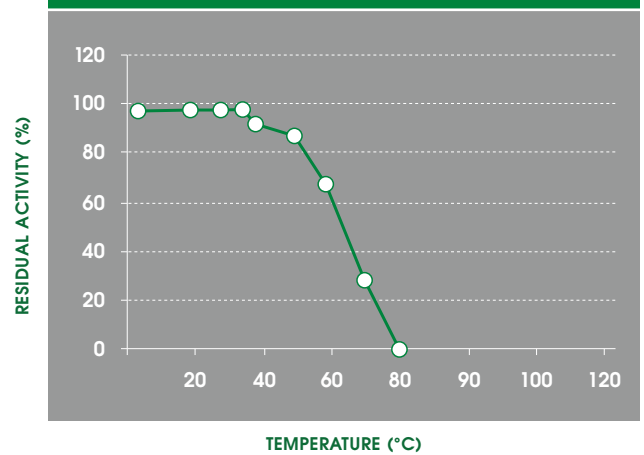


FIG. 4 Thermal Stability



ASSAY PRINCIPLE

Cholesterol esterase Type I (CEH1) catalyses the following reaction:



The generation of H₂O₂ is indirectly measured by the formation of quinoeimine dye at 500nm in the presence of peroxidase.

UNIT DEFINITION

One unit of activity is defined as the amount of enzyme that will catalyse the production of 1 micromole of cholesterol per minute at 37°C under standard assay method conditions.

(See Analytical Method for full details)

NOTES:
