

Recombinant Cholesterol Oxidase

Catalogue No. RECO-70-1221, 70-1221-02

ORIGIN

Streptomyces lividans

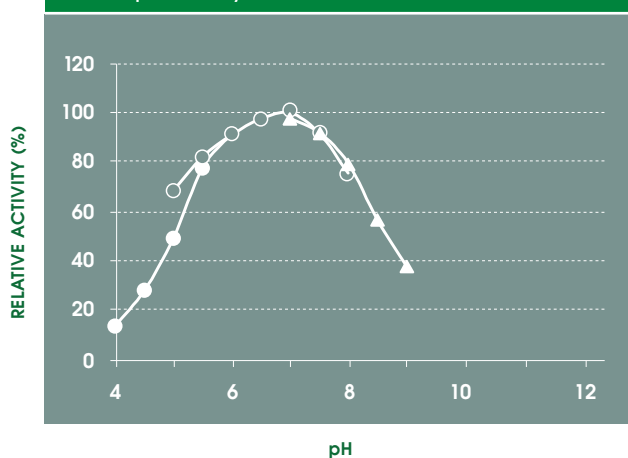
SPECIFICATIONS

Appearance	Bright yellow to brown free flowing powder
Activity	>25 U/mg powder @ 25°C
Specific Activity	>25 U/mg protein @ 25°C
Contaminants	
o Catalase	<1%
o Glucose oxidase	<0.01%
o Uricase	<0.01%

CHARACTERISTICS

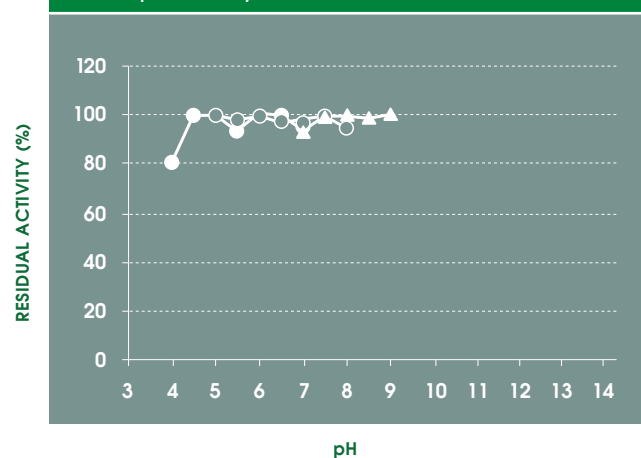
Optimum pH (Fig. 1)	6.5-7.0 (0.1M NaPO ₄ buffer)
pH stability (Fig. 2)	4.5-9.0 (37°C, 1 hour)
Thermal stability (Fig. 3)	50°C and below
Lyophilised stability	1 year at -20°C
Liquid Stability (Fig. 4)	2 years (4°C, pH 7.0)

FIG. 1 pH Activity



● ACETATE BUFFER
○ PHOSPHATE BUFFER △ TRIS BUFFER

FIG. 2 pH Stability



● ACETATE BUFFER
○ PHOSPHATE BUFFER △ TRIS BUFFER

FIG. 3 Thermal Stability

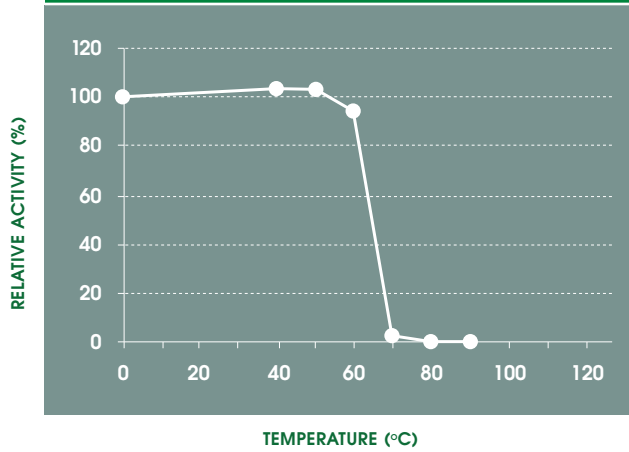
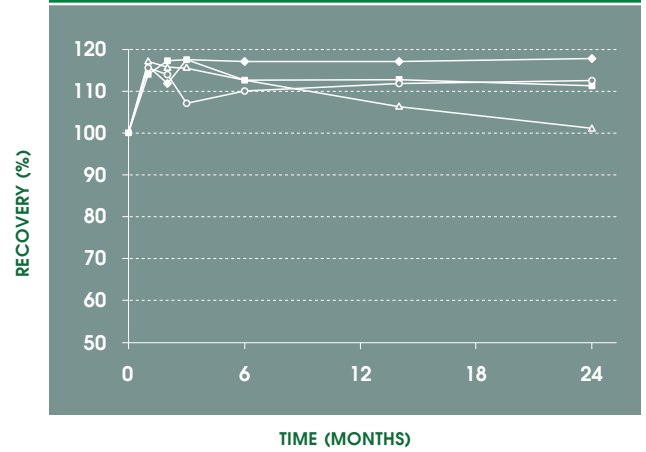


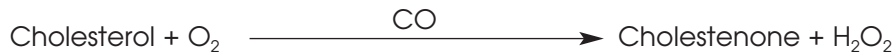
FIG. 4 Liquid Stability (4°C, pH 7.0)



◆ PIPES △ Tris
 ■ KH₂PO₄ ○ H₂O

ASSAY PRINCIPLE

Cholesterol Oxidase catalyses the following reaction:



The formation of cholestenone can be measured spectrophotometrically at 240nm.

UNIT DEFINITION

One unit of activity is defined as the amount of enzyme that will catalyse the oxidation of 1.0 micromole of cholesterol per minute at 25°C under the standard assay method conditions.

(See Analytical Method for full details)

NOTES:
