Cholesterol Oxidase

Catalogue No. CHOX-70-1101 and 70-1101-01

ORIGIN

Norcardia sp.

SPECIFICATIONS

Appearance . . . . . Yellowish/brown powder
Solution quality . . . . . Yellowish/brown solution, essentially free from particulate matter
Activity . . . . . >7.4 U/mg powder at 25°C
Specific activity . . . . . >11 U/mg protein at 25°C
Contaminants
- Catalase . . . . . <3.0% by activity
- Glucose Oxidase . . . . . <0.05% by activity
- Uricase . . . . . <0.005% by activity

CHARACTERISTICS

Optimum pH **(Fig. 1)** . . . . . 6.5 - 7.0 (0.1M $NaPO_4$ buffer)
Lyophilised stability . . . . . 1 year at -20°C

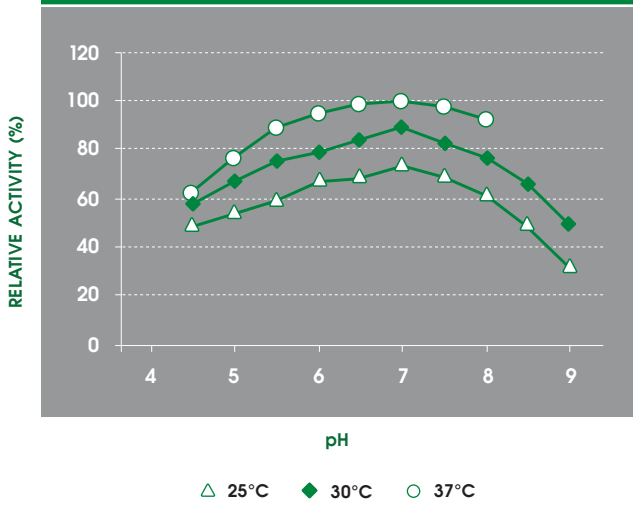
ASSAY PRINCIPLE

Cholesterol Oxidases catalyse the following reaction:

$$\text{Cholesterol} + O_2 \xrightarrow{\text{Cholesterol Oxidase}} \text{Cholestenone} + H_2O_2$$

The formation of cholestenone is followed directly by determining the rate of increase in absorbance at 240nm.

FIG.3 pH Optimum



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.

NOTES:

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