

ENZYMES

BY

SORACHIM

Cholesterol Oxidase from Microorganism

COO-331

SPECIFICATIONS

Product name:	Cholesterol: oxygen oxidoreductase
EC	1.1.3.6
Appearance:	Yellowish amorphous powder, lyophilized
Activity:	Grade III, 12 U/mg or more
Contaminants:	Catalase: < 0.1 % Cholesterol esterase: < 0.01 %
Stability:	Stable at - 20 °C for at least 12 months
Stabilizers:	Bovine serum albumin, amino acids
Molecular weight:	Approx. 55000(by gel-filtration)
Michaelis constants:	3 x 10 ⁻⁵ M (Cholesterol)
Inhibitors:	Ionic detergents, Hg ²⁺
Optimum pH:	7.0 - 8.0
Optimum temperature:	60 °C
pH Stability:	pH 5.0 - 10.0 (25 °C, 20hr)
Thermal stability:	Below 60 °C (pH 7.0, 15 min)

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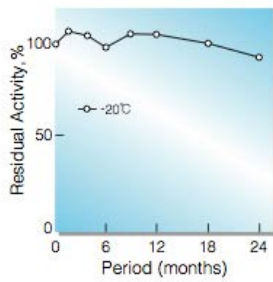


Fig.1. Stability (Powder form)
(kept under dry conditions)

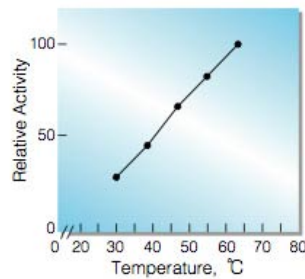


Fig.3. Temperature activity
(in 0.1M K-phosphate buffer, pH 7.0)

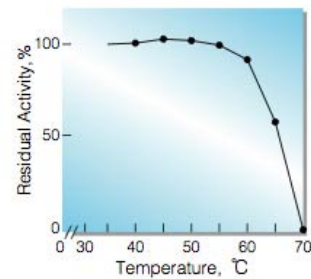


Fig.5. Thermal stability
(15 min-treatment with 50mM K-phosphate buffer, pH7.0)

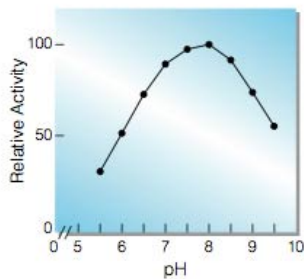


Fig.2. pH-Activity
(37°C in 0.1M K-phosphate buffer solution)

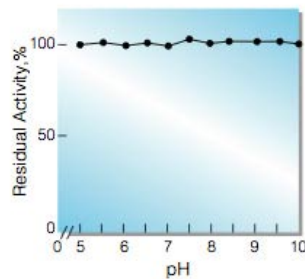


Fig.4. pH-Stability
(25°C 20 hr-treatment with 50mM buffer solution)
pH5.0-6.0, acetate buffer
pH6.5-8.5, K-phosphate buffer
pH9.0-10.0, Gly-NaOH buffer