

Catalog Number: 105439

## Cholesterol esterase

CAS # 9026-00-0

**Molecular Weight:** approx. 300,000

**Source:** *Pseudomonas sp.*

Steryl-ester acylhydrolase (EC 3.1.1.13)



**Physical Appearance:** Light brown amorphous powder, lyophilized

**Activity:**

Grade III 100 U/mg-solid or more  
(containing approx. 40% of stabilizers)

**Contaminant:** Catalase  $\leq 1.0 \times 10^{-2}\%$

**Solubility:** Soluble in distilled water or dilute buffer

**Stability:** Stable at  $-20^{\circ}\text{C}$  for at least one year

**Stabilizers:** Mg- - Na-cholate, bovine serum albumin

**Isoelectric Point:** 5.95=0.55

**Michaelis constants:**

$5.4 \times 10^{-5}\text{M}$ (Linoleate),  $6.6 \times 10^{-5}\text{M}$ (Oleate)

$3.7 \times 10^{-5}\text{M}$ (Lnolante),  $1.5 \times 10^{-5}\text{M}$ (Palmitate)

$1.2 \times 10^{-5}\text{M}$ (Myristate),  $2.3 \times 10^{-5}\text{M}$ (Stearate)

**Inhibitors:** Hg- - Ag ionic detergents

**Optimum pH:** 7.0 - 9.0

**Optimum temperature:**  $40^{\circ}\text{C}$

**pH Stability:** pH 5.0 - 9.0 ( $25^{\circ}\text{C}$ , 24hr)

**Thermal Stability:** below  $55^{\circ}\text{C}$  (pH 7.5, 10 min)

