

Product:	CHOLESTEROL ESTERASE
Product code:	CE4F
E.C. number:	3.1.1.13
CAS number:	9026-00-0
EINECS number:	232-808-6
Systematic name:	Steryl-ester acylhydrolase
Alternative names:	Cholesterol ester synthase, triterpenol esterase
Source:	<i>Pseudomonas sp.</i>
Form:	A freeze-dried material, containing bovine serum albumin and sodium cholate as stabilizers.
Storage conditions:	Store desiccated at -15°C or below. Allow to come to room temperature before opening. Before returning to storage, re-desiccate under vacuum over silica gel for a minimum of four hours. Re-seal before returning to -15°C or below.
Unit definition:	That amount of enzyme causing the formation of one micromole of hydrogen peroxide (half a micromole of quinoneimine dye) per minute at pH 7.0 and 37°C.
Activity:	Not less than 100U/mg material.
Contaminants:	Catalase: $\leq 1.0 \times 10^{-2}\%$

Product information

Molecular weight	Approx 300,000
Isoelectric point	5.9 ± 0.1
Michaelis constant	5.4 x10 ⁻⁵ M (Linoleate); 6.6x10 ⁻⁵ M (Oleate); 3.7x10 ⁻⁵ M (Linolenate); 1.5x10 ⁻⁴ M (Palmitate); 1.2x10 ⁻⁴ M (Myristate); 2.3x10 ⁻⁵ M (Stearate);
Inhibitors	Ag ⁺ , Hg ²⁺ , ionic detergents
Optimum pH	7.0 – 9.0
Optimum temperature	40°C
pH stability	pH 5.0 – 9.0 (25°C, 24hr)
Thermal stability	Below 55°C (pH 7.5, 10 mins)