

Product:	CHOLESTEROL OXIDASE
Product code:	CO5F
E.C. number:	1.1.3.6
CAS number:	9028-76-6
EINECS number:	232-842-1
Systematic name:	Cholesterol:oxygen oxidoreductase
Source:	<i>Microorganism</i>
Form:	A freeze-dried material, containing bovine serum albumin and amino acids 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 12U/mg material.
Contaminants:	Catalase: $\leq 1.0 \times 10^{-1}\%$ Cholesterol esterase: $\leq 1.0 \times 10^{-2}\%$

Product information

Molecular weight	Approx 55,000 (by gel filtration)
Isoelectric point	4.6 ± 0.1; 4.9± 0.1; 5.2± 0.1
Michaelis constant	2.1 x10 ⁻⁵ M (Cholesterol)
Inhibitors	Ag ⁺ , Hg ²⁺ , ionic detergents
Optimum pH	7.0 – 8.0
Optimum temperature	60°C
pH stability	pH 5.0 – 10.0 (25°C, 20hr)
Thermal stability	Below 55°C (pH 7.0, 15 mins)