

Native Cholesterol Esterase (CE) from Microorganism

Product Information

Cat#	BDE-022
Specification	2 KU, 10 KU, 500 KU, 1000 KU
Description	Cholesterol Esterase (CE) hydrolyzes cholesterol esters to release free cholesterol; when used in conjunction with cholesterol oxidase, it enables the determination of total cholesterol.
Applications	Used in combination with cholesterol oxidase in kits for total cholesterol and lipoprotein subclass analysis.
Enzyme Commission Number	EC 3.1.1.13
Form	White to light brown amorphous lyophilized powder
Source	Microorganism
Activity	≥ 100 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the formation of 1 μmol of H ₂ O ₂ per minute under specified assay conditions.
Molecular Weight	61 kDa (SDS-PAGE)
Purity	≥ 90%
Optimum pH	5.0
Optimum temperature	55°C
pH Stability	4.5-9.0 (37°C, 60 min)
Thermal Stability	< 50°C (pH 7.5, 30 min)
Isoelectric Point	5.15
Km Value	5.8×10 ⁻⁵ M (Cholesterol linoleate)



Creative Enzymes

Diagnostic Enzymes

Native Cholesterol Esterase (CE) from Microorganism

Inhibitors	Hg ²⁺ , Ag ⁺
Protectant	Sodium cholate and BSA
Storage	Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

Tel: 1-631-562-8517 1-516-512-3133

Email:info@creative-enzymes.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA