Creative Enzymes®

Native Nocardia sp. Cholesterol Dehydrogenase

Cat. No. NATE-0892

Lot. No. (See product label)

Introduction

Description	Cholesterol dehydrogenase is an enzyme that uses nicotinamide adenine dinucleotide/nicotinamide adenine dinucleotide phosphate (NAD(P)) as its cofactor in oxidizing cholesterol to form cholest-4-en-3-one. This enzyme oxidizes the hydroxyl group at the 3 position of the sterol ring to form a ketone.
Applications	Used in the formulation of Cholesterol testing reagents or in biosensor applications.
Synonyms	Cholesterol Dehydrogenase; CDH

Product Information

Source	Nocardia sp.
Appearance	Light yellow to brown powder
Form	Freeze dried powder
Molecular Weight	37 kDa (SDS-PAGE)
Activity	> 5 U/mg
Isoelectric point	4.5
pH Stability	6.5 - 7.5 (37°C, 15 mins)
Optimum pH	10
Thermal stability	Stable at 35°C and below (pH 7.0, 5 mins)
Optimum temperature	30°C
Activators	Triton X-100
Inhibitors	Ag+
Unit Definition	One unit of activity is defined as the amount of enzyme that will catalyse the production of 1.0 micromole of NADH per minute at 25°C under standard assay method conditions.