

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.