

## 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<sup>+</sup>

**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.