

## 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.