

## Chemically modified Cholesterol Oxidase from Brevibacterium species

Cat. No. DIA-284

Lot. No. (See product label)

### Introduction

<b>Description</b>	Oxidoreductase that catalyzes the interconversion of cholesterol to cholest-4-en-3-one. Rely on the proven diagnostic quality of this product.
<b>Applications</b>	Use Cholesterol Oxidase in diagnostic tests for the determination of cholesterol in combination with Cholesterol Esterase.
<b>Synonyms</b>	Cholesterol-O2 oxidoreductase; 3 beta-Hydroxy steroid oxidoreductase; 3 $\beta$ -hydroxysteroid: oxygen oxidoreductase; cholesterol: oxygen oxidoreductase; cholesterol oxidase

### Product Information

<b>Source</b>	Brevibacterium species
<b>Appearance</b>	Yellow lyophilizate
<b>Molecular Weight</b>	60 kD (native and SDS)
<b>Activity</b>	10-20 U/mg lyophilizate
<b>Contaminants</b>	Catalase: <6.0 Glucose oxidase: <0.01 "NADH oxidase": <0.01 Uricase: <0.01
<b>Isoelectric point</b>	~5.0
<b>pH Stability</b>	5.0-10.0
<b>Optimum pH</b>	5.5-8.0
<b>Thermal stability</b>	Up to +55°C
<b>Michaelis Constant</b>	Cholesterol: 1 x 10 <sup>-4</sup> mol/l
<b>Specificity</b>	cholesterol 100% pregnenolon 52% stigmasterol 17% dehydroandrosterone 0.5% androsterone 0% estradiol 0% cholate 0%
<b>Activators</b>	Non ionic detergents
<b>Inhibitors</b>	Hg <sup>2+</sup> , ZnCl <sub>2</sub> , SDS

### Storage and Shipping Information

<b>Storage</b>	No decrease in activity over 6 weeks at +35°C.
<b>Stability</b>	At -15 to -25°C within specification range for 12 months. Store dry. Protect from light.