

## ENZYMES

# Cholesterol Esterase Type II (CEH II)

**ORIGIN** *Candida rugosa*

**CAT#** 70-6551-03

**EC #** 3.1.1.13

### SPECIFICATIONS

|                         |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>       | Beige powder                                                                                                   |
| <b>CEH II Activity</b>  | 11-20 U/mg powder 37°C                                                                                         |
| <b>Lipase Activity</b>  | 3-8 U/mg powder at 37°C                                                                                        |
| <b>Protein</b>          | 10-30%                                                                                                         |
| <b>Contaminants</b>     | Glucose Oxidase <0.002 U/mg powder<br>Lactate Oxidase <0.002 U/mg powder<br>Uricase Oxidase <0.002 U/mg powder |
| <b>pH</b>               | pH 6.5 to 7.5                                                                                                  |
| <b>Solution Quality</b> | Clear solution, may contain a few small particles                                                              |

### ASSAY PRINCIPLE

Cholesterol Esterase Type II (CEHII) catalyses the following reaction:



The generation of  $\text{H}_2\text{O}_2$  is indirectly measured by the formation of quinoeimine dye at 500nm in the presence of peroxidase.

### APPLICATION

Used in the formulation of total cholesterol reagents when coupled with Cholesterol Oxidase.

### UNIT DEFINITION

One unit of activity is defined as the amount of enzyme that will catalyse the production of 1 micromole of cholesterol per minute at 37°C under standard assay method conditions.

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