

## Native *Arthrobacter globiformis* Choline oxidase

Cat. No. DIA-139

Lot. No. (See product label)

### Introduction

#### Description

In enzymology, a choline oxidase (EC 1.1.3.17) is an enzyme that catalyzes the chemical reaction  $\text{choline} + \text{O}_2 \rightleftharpoons \text{betaine aldehyde} + \text{H}_2\text{O}_2$ . Thus, the two substrates of this enzyme are choline and  $\text{O}_2$ , whereas its two products are betaine aldehyde and  $\text{H}_2\text{O}_2$ .

#### Synonyms

choline oxidase; EC 1.1.3.17; choline: oxygen 1-oxidoreductase

### Product Information

#### Source

*Arthrobacter globiformis*

#### Appearance

Yellow amorphous powder

#### Form

Freeze dried powder

#### EC Number

EC 1.1.3.17

#### CAS No.

9028-67-5

#### Activity

8-20 U/mg

#### Contaminants

Catalase/Choline oxidase ratio < 10:1; Glucose oxidase < 0.01%

#### pH Stability

7.5-9.0 (37°C, 30 mins)

#### Optimum pH

7.5-8.0

#### Thermal stability

Stable at 40°C and below (pH 7.5, 10 mins)

### Storage and Shipping Information

#### Storage

Store in tightly closed containers, desiccated, protected from light, at -20°C.