

## 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 choline + O<sub>2</sub> ⇌ betaine aldehyde + H<sub>2</sub>O<sub>2</sub>. Thus, the two substrates of this enzyme are choline and O<sub>2</sub>, whereas its two products are betaine aldehyde and H<sub>2</sub>O<sub>2</sub>.

**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.