

Choline oxidase from Alcaligenes sp

Product Code: 192607

EC: 1.1.3.17

SKU: 192607

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 1.1.3.17

Appearance : Yellowish amorphous powder, lyophilized

Activity : > 10 U/mg-solid (contains approx. 20% of stabilizers)

Contaminant : Catalase : $\leq 1.0 \times 10^{-2}$ %

Stabilizers : EDTA, BSA , Amino acids

Stability : Stable at - 20°C for at least 12 months

Molecular weight : approx. 95,000

Isoelectric point : 4.1 ± 0.1

Michaelis constants : 2.84×10^{-3} M (Choline), 5.33×10^{-3} M (Betaine aldehyde)

Structure : 1 mol of FAD is covalently bound to 1 mol of the enzyme

Inhibitors : p-Chloromercuribenzoate, Cu^{2+} , Co^{2+} , Hg^{2+} , Ag^{+}

Optimum pH : 8.0 - 8.5

Optimum temperature : 40 – 45 °C

pH Stability : pH 7.0 - 9.0 (30°C, 2 hr)

Thermal stability : below 37°C (pH 7.5, 10min)