

Ascorbate oxidase from Cucumis sp

Product Code: 194603

EC: 1.10.3.3

SKU: 194603

Category: [Enzymes](#)

PRODUCT DESCRIPTION

SPECIFICATIONS

EC 1.10.3.3

Product name: L-Ascorbate: oxygen oxidoreductase

Appearance: Light blue amorphous powder, lyophilized

Activity: Grade III, 200 U/mg solid or more (containing approx. 70% of stabilizers)

Contaminants: Catalase:< 0.1 % Phosphatase:< 0.02%

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

Stabilizers: Bovine serum albumin, borax, basic amino acids

Molecular weight: 132,000

Isoelectric point: Between 6.0 and 7.8

Michaelis constant: 2.5×10^{-4} M (Ascorbate)

Inhibitors: Cyanide, Na₂S, diethyldithiocarbamate (Na)

Optimum pH: 5.6

Optimum temperature: approx. 30 °C

pH Stability: pH 7.0 - 10.0 (25 °C, 20hr)

Thermal stability: Below 40 °C (pH 8.0, 30 min)

Substrate specificity: The enzyme oxidizes ascorbic acid and several ascorbic acid derivatives.