

Ascorbate oxidase from Cucurbita sp

Product Code: 194604

EC: 1.10.3.3

SKU: 194604

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

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: 140,000

Isoelectric point: 5.5 ± 0.2

Michaelis constant: 2.7×10^{-4} M (Ascorbate)

Inhibitors: Cyanide, Na₂S, diethyldithiocarbamate (Na)

Optimum pH: 5.5 - 6.5

Optimum temperature: approx. 45 °C

pH Stability: pH 6.0 - 10.0 (25 °C, 20hr)

Thermal stability: Below 45 °C (pH 7.0, 30 min)

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