

Chemically modified Cucurbita species Ascorbate Oxidase

Cat. No. DIA-283

Lot. No. (See product label)

Introduction

Description Oxidoreductase that oxidizes ascorbic acid to dehydroascorbate. Take advantage of the improved

stability in liquid reagents. Rely on the proven diagnostic quality of this product.

Applications Use Ascorbate Oxidase, chemically modified, in a variety of diagnostic tests to eliminate the

interference of ascorbic acid, since ascorbic acid interferes with the Trinder reaction that is widely used for the colorimetric determination of analytes. It is useful in liquid as well as dry chemistry test, e.g., for

the determination of uric acid, lactate or creatinine.

Synonyms ascorbase; ascorbic acid oxidase; ascorbate oxidase; ascorbic oxidase; ascorbate dehydrogenase; L-

ascorbic acid oxidase; AAO; L-ascorbate: O2 oxidoreductase; AA oxidase; L-ascorbate oxidase

Product Information

Source Cucurbita species

Appearance Turquoise lyophilizate

Molecular

Approximately 140 kD

Weight

Activity >180 U/mg lyophilizate (+37°C, L-ascorbate); Specific activity (+37°C): >1,800 U/mg protein

Contaminants Catalase: <0.2 Glutamate oxalacetate transaminase (AST): <0.0003 Glutamate pyruvate transaminase

(ALT): <0.0005 Contaminating oxidases (FOX): <0.0002

Isoelectric

point

5.0-6.0

pH Stability 6.5-9.0

Optimum pH 5.6-7.0

Thermal

Up to +70°C

stability

Michaelis Constant L-ascorbate: 3 x 10-4 mol/l

Specificity

Several analogs of ascorbate react.

Inhibitors 4-chloromercuribenzoate, CN-, Na2S, diethyl-dithiocarbamate, 8-hydroxyquinoline, K-ethylxanthate

Storage and Shipping Information

Stability At -15 to -25°C within specification range for 12 months. Store dry. Keep tightly sealed.

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