

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 Weight Approximately 140 kD

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 stability Up to +70°C

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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