

Native Nitrate Reductase from Aspergillus species

Cat. No. NATE-0998

Lot. No. (See product label)

Introduction

Description

Nitrate reductase (NADH) is an enzyme with system name nitrite:NAD⁺ oxidoreductase. This enzyme catalyses the following chemical reaction: nitrite + NAD⁺ + H₂O ↔ nitrate + NADH + H⁺. Nitrate reductase is an iron-sulfur molybdenum flavoprotein.

Applications

Nitrate Reductase is used for nitrate determination: Assay of nitrite and nitrate in culture media. Determination of NO₃⁻ in serum.

Synonyms

EC 1.7.1.2; assimilatory nitrate reductase; assimilatory NAD(P)H-nitrate reductase; NAD(P)H bispecific nitrate reductase; nitrate reductase (reduced nicotinamide adenine dinucleotide (phosphate)); nitrate reductase NAD(P)H; NAD(P)H-nitrate reductase; nitrate reductase [NAD(P)H₂]; NAD(P)H₂:nitrate oxidoreductase

Product Information

Source

Aspergillus sp.

Form

Lyophilized powder

EC Number

EC 1.7.1.2

CAS No.

9029-27-0

Activity

~0.4 units/mg protein

Contaminants

<0.5% "NADPH oxidase", <0.8% NAD(P)H-dependent ADH, <0.15% nitrite reductase

Usage and Packaging

Package

20 U

Storage and Shipping Information

Storage

-20°C

Stability

A solution of 20 U Nitrate reductase in 2 ml double-dist. water is stable for one week when stored at 2 to 8 °C; for longer periods, freeze the solution in aliquots.