

Native corn Nitrate Reductase

Cat. No. NATE-0474

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

Catalyzes the NADH-dependent reduction of nitrate to nitrite.

Synonyms

EC 1.7.1.1; 9013-03-0; Nitrate reductase; NADH; nitrate reductase; NADH-nitrate reductase; NADH-dependent nitrate reductase; assimilatory NADH:nitrate reductase; nitrate reductase (NADH₂); NADH₂:nitrate oxidoreductase; assimilatory nitrate reductase

Product Information

Source

Corn

Form

buffered aqueous glycerol solution

EC Number

EC 1.7.1.1

CAS No.

9013-03-0

Activity

> 4 units/mL

Buffer

Solution in 0.01 M EDTA, 50 mM MOPS, pH 7.0, containing 50% glycerol and 1 mg per mL BSA

Unit Definition

One unit will reduce 1.0 μmole of nitrate to nitrite per minute in a NADH system at pH 7.3 at 30°C.

Storage and Shipping Information

Stability

–70°C