Creative Enzymes®

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 catalises the following chemical reaction:nitrite + NAD+ + H2O↔ nitrate + NADH + H+. Nitrate reductase us 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