

## 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<sup>+</sup> oxidoreductase. This enzyme catalyses the following chemical reaction: nitrite + NAD<sup>+</sup> + H<sub>2</sub>O ↔ nitrate + NADH + H<sup>+</sup>. 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 NO<sub>3</sub><sup>-</sup> 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)H<sub>2</sub>]; NAD(P)H<sub>2</sub>: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.