

## Native *Bacillus megaterium* Diaphorase (NADH)

Cat. No. DIA-142

Lot. No. (See product label)

### Introduction

#### Description

In enzymology, a NADPH dehydrogenase is an enzyme that catalyzes In enzymology, a NAD (P)H dehydrogenase (quinone) (EC 1.6.5.2) is an enzyme that catalyzes the chemical reaction  $\text{NAD (P)H} + \text{H}^+ + \text{a quinone} \leftrightarrow \text{NAD (P)}^+ + \text{a hydroquinone}$ . The 4 substrates of this enzyme are NADH, NADPH,  $\text{H}^+$ , and quinone, whereas its 3 products are  $\text{NAD}^+$ ,  $\text{NADP}^+$ , and hydroquinone.

#### Applications

Useful for enzymatic determination of reduced NAD

#### Synonyms

EC 1.6.99.3; cytochrome c reductase; type 1 dehydrogenase; beta-NADH dehydrogenase dinucleotide; diaphorase; dihydrocodehydrogenase I dehydrogenase; dihydronicotinamide adenine dinucleotide dehydrogenase; diphosphopyridine diaphorase; DPNH diaphorase; NADH diaphorase; NADH hydrogenase; NADH oxidoreductase; NADH-menadione oxidoreductase; reduced diphosphopyridine nucleotide diaphorase; Beta-NADH dehydrogenase dinucleotide

### Product Information

#### Source

*Bacillus megaterium*

#### Appearance

Yellow dried powder

#### Form

Freeze dried powder

#### EC Number

EC 1.6.99.3

#### CAS No.

9079-67-8

#### Activity

30-60 U/mg

#### pH Stability

6.0-9.0 (50°C, 10 mins)

#### Optimum pH

7.5-8.5

#### Thermal stability

Stable at 50°C and below (pH 8.0, 10 mins)

### Storage and Shipping Information

#### Storage

Store in tightly closed containers, desiccated, protected from light, at -20°C.