

## **Native Bacillus stearothermophilus Diaphorase 1**

Cat. No. NATE-1901

Lot. No. (See product label)

## Introduction

**Description** Diaphorase catalyzes the reaction of a reduced di- or tri-phosphopyridine nucleotide hydrogen donor

with a hydrogen acceptor, usually a dye in the leucoform.

**Applications** The enzyme is useful for the measurement of various dehydrogenase reactions in visible spectral

range.

**Synonyms** Diaphorase 1; Di-1; EC 1.6.99 -

## **Product Information**

**Source** Bacillus stearothermophilus

Appearance Lyophilized

**EC Number** EC 1.6.99.-

**Molecular** ca. 30,000

Weight

**Specific** more than 1,000 U/mg protein

Activity

**Contaminants** (as Diaphorase activity = 100 %) Adenylate kinase: < 0.01 %; NADH oxidase: < 0.01 %.

**pH Stability** 7.5 - 9.5

Optimum pH 8

**Thermal** No detectable decrease in activity up to 50 °C.

stability

Unit

One unit of activity is defined as the amount of Di-1 that reduces 1 µmol of DCIP per minute at 30 °C.

Definition

**Reaction** NAD(P)H + Acceptor(ox.) + H+  $\longleftrightarrow$  NAD(P)+ + Acceptor(red.)

## Storage and Shipping Information

**Storage** Stable at -20 to 5 °C for at least one year.