

## Diaphorase 22 from Recombinant E.coli

Cat. No. NATE-1938

Lot. No. (See product label)

## Introduction

**Description** Recombinant Diaphorase 2.2 from E. coli for advanced research on redox reactions

and enzymatic activity. Ideal for biochemistry and molecular biology studies.

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**Synonyms** LDP-Glc; LDP-Val; dehydrolipoate dehydrogenase; diaphorase; dihydrolipoamide

dehydrogenase; dihydrolipoamide:NAD+ oxidoreductase; dihydrolipoic

dehydrogenase; dihydrothioctic dehydrogenase; lipoamide dehydrogenase (NADH); lipoamide oxidoreductase (NADH); lipoamide reductase; lipoamide reductase (NADH); lipoate dehydrogenase; lipoic acid dehydrogenase; lipoyl dehydrogenase;

protein-6-N-(dihydrolipoyl)lysine:NAD+ oxidoreductase

## **Product Information**

**Source** E. coli

**Form** Lyophilized

**EC Number** EC 1.8.1.4

*CAS No.* 9001-18-7

Molecular Weight ca. 110,000

Activity >150 U/mg protein

**Contaminants** (as Diaphorase activity = 100 %) Adenylate kinase < 0.01 % NADH oxidase < 0.20

%

**pH Stability** 6.0 - 9.0

Optimum pH 8

**Thermal stability** No detectable decrease in activity up to 70 °C.

Michaelis Constant (50 mM HEPES buffer, pH 7.0, at 30 °C) 3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-

2H-tetrazolium bromide (MTT) 0.345 mM NADH 0.033 mM

1/1

 $\textbf{\textit{Unit Definition}} \qquad \qquad \text{One unit of activity is defined as the amount of Diaphorase that forms 1 $\mu$mol of}$ 

NAD+ per minute at 30 °C.

## Storage and Shipping Information

**Storage** Store at -20°C

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