

Native Clostridium sp. Diaphorase

Cat. No. DIA-187

Lot. No. (See product label)

Introduction

This enzyme is useful for colorimetric determination of NAD(P)H and many dehydrogenases when **Applications**

coupled with various dyes which act as hydrogen acceptors from NAD(P)H.

Synonyms Diaphorase; EC 1.6.99.-

Product Information

Source Clostridium sp.

Yellowish amorphous powder, lyophilized **Appearance**

Form Freeze dried powder

EC Number EC 1.6.99.-

Molecular

24 kDa

Weight

Activity Gradelli 30U/mg-solid or more (containing approx. 15% of stabilizers)

Contaminants Myokinase $< 5.0 \times 10^{-1}\%$ NAD(P)H oxidase $< 5.0 \times 10^{-1}\%$

pH Stability pH 7.5 (30°C, 3hr)

Optimum pH 8.5

Thermal below 30°C (pH 7.5, 30min) stability

Optimum 50°C

temperature

Michaelis

 2.0×10^{-5} M (NADH), 6.0×10^{-6} M (NADPH)

Constant

Structure One mol of FMN per mol of enzyme

Specificity Either NADH or NADPH can be used as a reductant. The catalytic ratio (NADPH/NADH) is 0.6 in the

assay method. Neither oxygen nor cytochrome C can be utilized as a hydrogen acceptor.

Inhibitors N-Ethylmaleimide

Stabilizers FMN, NAD(P)H

Storage and Shipping Information

Stability Stable at-20°C for at least one year

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