

NAD/NADH Assay Kit

Cat. No. Kit-2436 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Pyridine nucleotides play an important role in metabolism and, thus, there is continual interest in monitoring their concentration levels. Quantitative determination of NAD⁺/NADH has applications in research pertaining to energy transformation and redox state of cells or tissue. Simple, direct and automation-ready procedures for measuring NAD⁺/NADH concentration are very desirable. NAD⁺/NADH assay kit is based on a lactate dehydrogenase cycling reaction, in which the formed NADH reduces a formazan (MTT) reagent. The intensity of the reduced product color, measured at 565 nm, is proportional to the NAD⁺/NADH concentration in the sample. This assay is highly specific for NAD⁺/NADH and with minimal interference (<1%) by NADP⁺/NADPH. Our assay is a convenient method to measure NAD, NADH and their ratio.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method

OD565nm

Compatible Sample Types

Cell or tissue extracts

Features & Benefits

Sensitive and accurate. Detection limit of 0.05 µM and linearity up to 10 µM NAD⁺/NADH in 96-well plate assay.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Convenient. The procedure involves adding a single working reagent, and reading the optical density at time zero and 15 min at room temperature.

High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

Assay time	15 min
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Sensitivity	0.05 μ M
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