

NAD⁺/NADH Colorimetric Assay Kit (384-well)

Cat. No. Kit-1048 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description

Nicotinamide Adenine Dinucleotide (NAD) is a co-enzyme indispensable for the activity of multiple catalytic proteins. NAD⁺ and NADH, its reduced form, participate in many biological redox reactions. NAD⁺ is mostly associated with redox enzymes required for catabolic reaction and energy production. NADH/NAD Quantification Kit provides a convenient tool for a sensitive detection of NADH, NAD and their ratio. There is no requirement to purify NADH or NAD from samples. The NADH selective developer develops color while reacting with NADH and can be detected at OD 450 nm. The total NAD can be easily quantified by comparing with the provided NADH standard. The method is quantitative, rapid, simple, sensitive, and designed for high throughput format. The kit can detect as low as 0.04 pmol of NADH in a 384 well assay plate. The reaction specifically detects NADH and NAD, but not NADP nor NADPH.

Applications

NADH/NAD Quantification Kit provides a convenient tool for sensitive detection of the intracellular nucleotides: NADH, NAD and their ratio

Storage -20°C

Shipping Gel Pack

Size 400 assays

Kit Components NADH/NAD Extraction Buffer; NAD Cycling Buffer; NAD Cycling Enzyme Mix; NADH

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	Developer; Stop Solution; NADH Standard
Target Species	Mammalian
Detection method	Absorbance (450 nm)
Features & Benefits	Simple procedure; takes ~2 hours; Fast and convenient; Kit contains the necessary reagents for accurate measurement of NAD and NADH and their ratio.

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