

NADH Assay Kit (Red)

Cat. No. Kit-0615 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NADH Assay Kit provides a sensitive, one-step assay to detect as little as 100 pico-moles of NADH in a 100 ul assay volume (1 uM).
Description	Nicotinamide adenine dinucleotide (NAD ⁺) and nicotinamide adenine dinucleotide phosphate (NADP ⁺) are two important cofactors found in cells. NADH is the reduced form of NAD ⁺ , the oxidized form of NADH. NAD forms NADP with the addition of a phosphate group to the 2' position of the adenylyl nucleotide through an ester linkage. The traditional NAD/NADH and NADP/NADPH assays are done by monitoring the changes in NADH or NADPH absorption at 340 nm. The short UV wavelength of the traditional NAD/NADH and NADP/NADPH assays makes these methods to suffer low sensitivity and high interference. Due to the weak absorption of NAD and NADH, the UV absorption method requires large sample sizes, making the same NAD and NADH measurement impractical if the availability of samples is limited.
Usage	For research use only (RUO)
Storage	Store Component A and C at -20 °C, Component B and G at 4 °C.
Kit Components	Component A : NADH Recycling Enzyme Mixture (lyophilized powder) 2 bottles Component B: NADH Assay Buffer 20 mL Component C : NADH Standard 142 µg Component G: NAD/NADH Lysis Buffer 10 mL
Detection method	540/590 nm
Compatible Sample	Cell Lysate, Tissue Lysate

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Types**Features & Benefits**

Broad application NADH detection in solution or cell extracts. Sensitive Detect as low as 10 nanomoles of NADH in solution. Continuous Easily adapted to automation without a separation step. Convenient Formulated to have minimal hands-on time. No wash required. Non-radioactive No special requirement for waste disposal.

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