

## Nitric Oxide Fluorometric Assay Kit

**Cat. No.** Kit-2242    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**

Nitric oxide (NO) plays an important role in neurotransmission, vascular regulation, immune response and apoptosis. Since NO is rapidly converted to nitrite ( $\text{NO}_2^-$ ) and nitrate ( $\text{NO}_3^-$ ), the total concentration of nitrite and nitrate is used as a quantitative measure of NO production. Nitric Oxide Fluorometric Assay Kit provides an accurate and convenient measurement of total nitrate/nitrite concentration in a simple two-step process. In the first step nitrate is converted to nitrite by nitrate reductase. In the second step, nitrite reacts with the fluorescent probe DAN (2, 3 diaminonaphthalene). NaOH enhances the fluorescent yield. The fluorescent intensity is proportional to the total nitric oxide production. The kit has been tested with culture media, plasma, and tissue homogenates.

**Applications**                      Measurement of total nitrate/nitrite concentration.

**Storage**                               $-20^\circ\text{C}$

**Shipping**                            Gel Pack

**Size**                                    2 x 96 assays

**Kit Components**

Assay Buffer; Enzyme Cofactor; Enhancer; Nitrate Reductase; Nitrate Standard; Nitrite Standard; DAN Probe; Sodium Hydroxide; Microtiter plate; Plate Cover

**Target Species**                    Mammalian

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|                                |                                                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Detection method</b>        | Fluorescence (Ex/Em 380/461 nm)                                                                                                                                                                                                                             |
| <b>Features &amp; Benefits</b> | <p>Simple procedure; takes only 2-3 hours;<br/>Fast and convenient;<br/>The fluorometric kit provides a simple two-step process for quantitative measurement of total nitrate/nitrite productions.<br/>The assay can be easily done in a 96-well plate.</p> |

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