

## Nitric Oxide Fluorometric Assay Kit

### Product Information

**Cat**

Kit-2242

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### 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°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

## Nitric Oxide Fluorometric Assay Kit

### Target Species

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Mammalian

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**Detection method** Fluorescence (Ex/Em 380/461 nm)

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### Features & Benefits

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Simple procedure; takes only 2-3 hours;

Fast and convenient;

The fluorometric kit provides a simple two-step process for quantitative measurement of total nitrate/nitrite productions.

The assay can be easily done in a 96-well plate.

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