CREATIVE BIOMART®
Assay Kit

Nitrate/Nitrite Fluorometric Assay Kit

Product Information

Cat.No. Kit-0629

Product Overview

Nitrate/Nitrite Fluorometric Assay Kit is a measurement for detecting total nitratr/nitrite concentration.

Description

Nitric Oxide (NO) is synthesized in biological systems by the enzyme Nitric Oxide Synthase (NOS). NOS is a remarkably complex enzyme which acts on molecular oxygen, arginine, and NADPH to produce NO, citrulline, and NADP+. This process requires five additional cofactors (FMN, FAD, Heme, calmodulin, and tetrahydrobiopterin) and two divalent cations (calcium and heme iron). Three distinct isoforms of NOS have been identified.

Usage

For research use only (RUO)

Storage

The kit will perform as specified if components are stored as directed below and used before the expiration date indicated on the outside of the box.Item StorageNitrate/Nitrite Assay Buffer 4°CNitrate Reductase Enzyme Preparation -20°CNitrate Reductase Cofactor Preparation -20°CNitrate Standard 4°C or Room TemperatureNitrite Standard 4°C or Room TemperatureDAN Reagent 4°CSodium Hydroxide (2.8 M) 4°C or Room Temperature96-Well Plate (white) Room Temperature96-Well Cover Sheet Room Temperature

Kit Components

Nitrate/Nitrite Assay Buffer 1 vialNitrate Reductase Enzyme Preparation 2 vialsNitrate Reductase Cofactor Preparation 2 vialsNitrate Standard 1 vialNitrite Standard 1 vialDAN Reagent 1 vialSodium Hydroxide (2.8 M) 1 vial96-Well Plate (white) 3 plates96-Well Cover Sheet 3 covers

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