CREATIVE BIOMART®
Assay Kit

Nitrate/Nitrite Colorimetric Assay Kit (LDH method)

Product Information

Cat.No. Kit-0628

Product Overview

Nitrate/Nitrite Colorimetric Assay Kit (LDH method) is a measurement for detecting low levels of nitrite.

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

This kit will perform as specified if stored at -20°C and used before the expiration date indicated on the outside of the box.Component StorageNitrate/Nitrite Assay Buffer 4°CNitrate Reductase (LDH method) -20°CLactate Dehydrogenase Cofactor Preparation -20°CNitrate Standard 4°C or Room TemperatureLactate Dehydrogenase -20°CGriess Reagent R1 4°CGriess Reagent R2 4°C96-Well Plate (Colorimetric Assay) Room Temperature96-Well Cover Sheets Room Temperature

Kit Components

Nitrate/Nitrite Assay Buffer 1 vialNitrate Reductase (LDH method) 1 vialLactate Dehydrogenase Cofactor Preparation 1 vialNitrate Standard 1 vialLactate Dehydrogenase 1 vialGriess Reagent R1 1 vialGriess Reagent R2 1 vial96-Well Plate (Colorimetric Assay) 1 plate96-Well Cover Sheets 1 cover

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