

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	Storage
Nitrate/Nitrite Assay Buffer	4°C
Nitrate Reductase (LDH method)	-20°C
Lactate Dehydrogenase Cofactor Preparation	-20°C
Nitrate Standard	4°C or Room Temperature
Lactate Dehydrogenase	-20°C
Griess Reagent R1	4°C
Griess Reagent R2	4°C
96-Well Plate (Colorimetric Assay)	Room Temperature
96-Well Cover Sheets	Room Temperature

Kit Components

Nitrate/Nitrite Assay Buffer	1 vial	Nitrate Reductase (LDH method)	1 vial	Lactate Dehydrogenase Cofactor Preparation	1 vial	Nitrate Standard	1 vial	Lactate Dehydrogenase	1 vial	Griess Reagent R1	1 vial	Griess Reagent R2	1 vial	96-Well Plate (Colorimetric Assay)	1 plate	96-Well Cover Sheets	1 cover
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