



## 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<sup>+</sup>. 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