

Nitrate/Nitrite Colorimetric Assay Kit

Product Information

Cat.No.

Kit-0627

Product Overview

Nitrate/Nitrite Colorimetric Assay Kit is a measurement for detecting total nitrate/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

This kit will perform as specified if stored as directed at -20°C and used before the expiration date indicated on the outside of the box.

Item	Storage
Nitrate/Nitrite Assay Buffer	4°C
Nitrate Reductase Enzyme Preparation	-20°C
Nitrate Reductase Cofactor Preparation	-20°C
Nitrate Standard	4°C
Nitrite Standard	4°C
Griess Reagent R1	4°C
Griess Reagent R2	4°C
96-Well Plate (Colorimetric Assay)	Room Temperature
96-Well Cover Sheet	Room Temperature

Kit Components

Nitrate/Nitrite Assay Buffer 1 vial
Nitrate Reductase Enzyme Preparation 2 vials
Nitrate Reductase Cofactor Preparation 2 vials
Nitrate Standard 1 vial
Nitrite Standard 1 vial
Griess Reagent R1 2 vials
Griess Reagent R2 2 vials
96-Well Solid Plate (Colorimetric Assay) 3 plates
96-Well Cover Sheet 3 covers