

Nitrate/Nitrite Fluorometric Assay Kit

Cat. No. Kit-0629 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Nitrate/Nitrite Fluorometric 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	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 Storage Nitrate/Nitrite Assay Buffer 4°C Nitrate Reductase Enzyme Preparation -20°C Nitrate Reductase Cofactor Preparation -20°C Nitrate Standard 4°C or Room Temperature Nitrite Standard 4°C or Room Temperature DAN Reagent 4°C Sodium Hydroxide (2.8 M) 4°C or Room Temperature 96-Well Plate (white) 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 DAN Reagent 1 vial Sodium Hydroxide (2.8 M) 1 vial 96-Well Plate (white) 3 plates 96-Well Cover Sheet 3 covers

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