Nitric Oxide (NO_2^-/NO_3^-) detection kit

Fast, reliable, easy to use detection kit for separate detection of nitrate and nitrite

The Nitric Oxide (NO_2^-/NO_3^-), detection kit is a complete kit for the quantitative determination of nitrate and nitrite concentrations. Absorbance is read at 540-570 nm. Only 0.050 ml diluted sample needed per well saves precious sample.

Nitric oxide (NO) is a major mammalian secretory product that initiates host defense, homeostatic and developmental functions by either direct effect or intercellular signaling. NO is the product of a five-electron oxidation of the amino acid L-arginine mediated by nitric oxide synthase. As a direct effector, NO is thought to activate regulatory proteins, kinases and proteases that are directed by reactive oxygen intermediates. Activation of the immune system is associated with an increase in macrophage NO production. Soluble NO exerts a variety of homeostatic influences as an activator of soluble guanylyl cyclase, a neuronal potentiator, a peripheral nervous system neurotransmitter, and a contraction regulator of both smooth muscle and vascular tissue. In addition, NO has been linked to the formation of olfactory and synaptic memories and remodeling.

Citations: 27 View Online »

Ordering Information

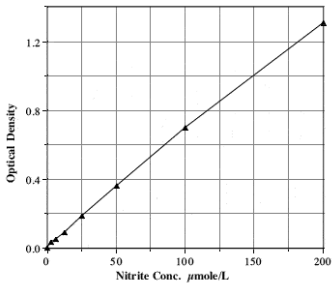
Order Online »

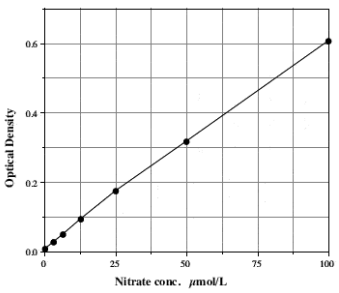
ADI-917-010	2x96 wells

Manuals, SDS & CofA

View Online »

- Homogeneous mix and read assay
- Measures nitrate and nitrite separately
- Fast results in 10 to 40 minutes from up to 39 samples in duplicate


Optical Density
1.2
0.8
0.4
0.0
0
50
100
150
200
Nitrite Conc. µmole/L


Optical Density
0.6
0.4
0.2
0.0
0
25
50
75
100
Nitrate conc. µmol/L

Handling & Storage

Use/Stability	Store all components at 4°C, except nitrate reductase at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection
Application Notes	For the quantitative determination of nitrite and nitrate levels in culture supernatants, plasma, serum, saliva, and urine from any species.
Contents	Microtiter plate, Nitrate Reductase, Nitrate Reductase Storage Buffer, NADH, Nitrate Standard, Nitrite Standard, Reaction buffer concentrate, Griess Reagent I, Griess Reagent II
Sensitivity	(Nitrite) 0.222 µmole/L; (Nitrate) 0.625 µmole/L (range (Nitrite) 3.125 – 200 µmole/L; (Nitrate) 3.125 – 100 µmole/L)
Species Reactivity	Species independent

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.