

ARG83399 Nitrite Assay Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83399 Nitrite Assay Kit can be used to measure Nitrite in serum, plasma, urine, tissue extracts, cell lysate, cell culture media and other biological fluids.
Tested Reactivity	Other
Tested Application	FuncSt
Target Name	Nitrite
Conjugation Note	Read at 547 nm
Sensitivity	0.005 nmol/ml
Sample Type	Serum, plasma, urine, tissue extracts, cell lysate, cell culture media and other biological fluids.
Standard Range	0.01 nmol/ml - 1 nmol/ml
Sample Volume	170 µl
Alternate Names	Nitrite; Nitrite ion; Nitrous acid, ion(1-); Nitrite ion(1-); Nitrogen peroxide ion(1-)

Application Instructions

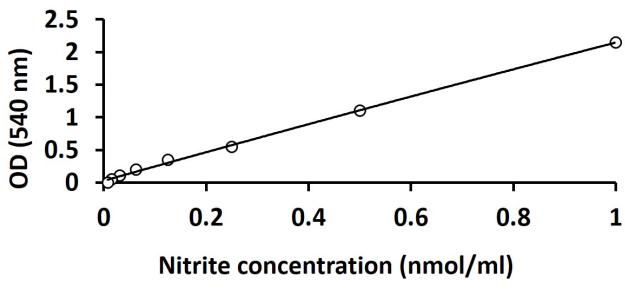
Assay Time	20 min
------------	--------

Properties

Form	96 well
Storage instruction	Store the kit at 4°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	The nitrite ion has the chemical formula NO_2^- . Nitrite (mostly sodium nitrite) is widely used throughout chemical and pharmaceutical industries. The nitrite anion is a pervasive intermediate in the nitrogen cycle in nature. The name nitrite also refers to organic compounds having the $-\text{ONO}$ group, which are esters of nitrous acid.
Function	Nitrite can be reduced to nitric oxide or ammonia by many species of bacteria. Under hypoxic conditions, nitrite may release nitric oxide, which causes potent vasodilation. Several mechanisms for nitrite conversion to NO have been described, including enzymatic reduction by xanthine oxidoreductase, nitrite reductase, and NO synthase (NOS), as well as nonenzymatic acidic disproportionation reactions.



ARG83399 Nitrite Assay Kit standard curve image

ARG83399 Nitrite Assay Kit results of a typical standard run with optical density reading at 450 nm.