

Nitric Oxide Assay Kit

Catalog No.: K054

Size: 100T/500T/2500T

Storage: The kit should be stored at -20°C for one year or 2-8°C for half a year in dark.

Kit components:

Item	100T	500T	2500T
NaNO ₂ (1M)	0.2mL	1 mL	1 mL
Griess Reagent I	5mL	25 mL	125 mL
Griess Reagent II	5mL	25 mL	125 mL
Product Description	1copy	1copy	1copy

Introduction

Nitric Oxide Assay Kit (NO Assay Kit) is made by using the classic Griess Reagent and the assay solution system has been optimized to achieve a lower detection limit of 1 μ m, with perfect linearity in the 1-100 μ m range.

The detection speed is extremely fast, taking only 3 minutes to complete a standard curve or 5-10 samples.

A wide range of samples can be used to detect the content of nitric oxide, including cells or tissues and their culture media(Phenol red and 10% serum do not interfere with the determination of nitric oxide), serum, plasma and urine.

Precautions for Use

This product is harmful to human body, please be careful when operating.

If the solution is discolored or precipitated due to improper storage, the solution is no longer valid and please purchase a new kit.

It is not recommended to use RIPA lysate for cell or tissue lysis, because it may cause precipitation in subsequent reactions and affect the test. Cell and tissue lysate (for nitric oxide detection) is recommended.

For the determination of NO content in serum samples, the concentration can be calculated by diluting the standard directly with water if it is only calculated roughly. If the normal serum measured is a common serum, the concentration of NO can be checked from the literature, and then the standard can be diluted with the serum with the known concentration of NO, so as to obtain a more accurate concentration of NO. Or diluting standards with known concentrations of human or other animal serum may also do the trick.

This product is only limited to scientific research personnel, can not be used for clinical diagnosis or treatment, food or medicine, must not be stored in the ordinary residential.

For your safety and health, please wear clothes and wear disposable gloves.

Assay Procedure

1. Take out Griess Reagent I and II and restore to room temperature.
2. Standard dilution
1 M NaNO₂ is diluted to 10 mM, then 10 mM NaNO₂ is diluted to 100 μM.
The 100μM NaNO₂ was diluted to 0, 1, 2, 5, 10, 20, 40, 60, 100 μM with the solution used for sample preparation or dilution.
3. Standards and samples were added to a 96-well plate at 50 μL/well.
4. Add Griess Reagent I at room temperature to each well at 50 μL/well.
5. Add Griess Reagent II at room temperature to each well at 50 μL/well.
6. Absorbance was measured at 540nm. If a 540nm filter is not available, a 520-560nm filter will also work.
7. Calculate the concentration of nitric oxide in the sample according to the standard curve.