



Nitrotyrosine ELISA Kit

Catalog number: EK7116

For detection of multiple analytes using one single assay.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

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Size: 96 wells/kit

Sample Type: Plasma, Serum, Cell Lysates, Urine

Sensitivity: 50 nM

Assay Range: 62.5 - 8000 nM

Storage: Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Introduction

Boster's ELISA Kit is a competitive assay that can be used for the quantification of Free Nitrotyrosine in plasma, serum, cell lysates, urine, and other sample matrices. The ELISA utilizes an Nitrotyrosine-coated plate and an HRP-conjugated antibody for detection which allows for an assay range of 62.5 to 8000nM Free Nitrotyrosine, with a sensitivity of 50nM. The other highlights of this kit are a quick incubation time of 60 minutes, stable reagents, and an easy to use protocol.

Kit Components

Description	Quantity
Nitrosylated BSA Coated Plate	1 Plate
Nitrotyrosine Standard	1 vial/110µl
Nitrotyrosine HRP Conjugated Monoclonal Antibody	1 vial/75µl
Sample and Standard Diluent (Red)	1 vial/50mL
Nitrotyrosine Antibody Diluent (Blue)	1 vial/13mL
Wash Buffer Concentrate (10X)	1 vial/ 50mL
TMB Substrate	1 vial/ 13 ml
Stop Solution	1 vial/ 13 ml
Plate Cover	2

Materials Required, but Not Provided

1. A plate reader capable of measuring absorbance at 450 nm.
2. Adjustable pipettes and a repeat pipettor.
3. Deionized or distilled water
4. Materials used for Sample Preparation

Intra/Inter Assay Precision

Intra-Assay Precision: Three samples of known concentration were assayed thirty times on one plate. The intra-assay coefficient of variation of the Nitrotyrosine ELISA has been determined to be <10%.

Inter-Assay Precision: Three samples of known concentration were assayed thirty times in three individual assays. The inter-assay coefficient of variation of the Nitrotyrosine ELISA has been determined to be <15%.

Assay Overview

1. Prepare standard and samples in the Sample and Standard Diluent.
2. Add 50 μ L of prepared standards and samples in triplicate to appropriate wells.
3. Add 50 μ L of the diluted antibody preparation to the appropriate wells.
4. Cover plate with Plate Cover and incubate at room temperature (20-25°C) for 1 hour.
5. Wash plate 4 times with 1X Wash Buffer.
6. Add 100 μ L of TMB Substrate to each well.
7. Cover plate and develop the plate in the dark at room temperature for 30 minutes.
8. Add 100 μ L of Stop Solution to each well.
9. Measure absorbance on a plate reader at 450 nm.
10. Plot the standard curve and calculate sample concentrations.

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