



User's Manual

Rabbit NT-proBNP ELISA Kit



DEIA-SY002



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

For the quantitative determination of rabbit N-terminal pro-brain natriuretic peptide (NT-proBNP) concentrations in serum, plasma, tissue homogenates, cell culture supernates.

Principles of Testing

This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for NT-proBNP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any NT-proBNP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NT-proBNP is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of NT-proBNP bound in the initial step. The color development is stopped and the intensity of the color is measured.

Materials Required But Not Supplied

1. Microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.
2. An incubator which can provide stable incubation conditions up to 37°C±0.5°C.
3. Squirt bottle, manifold dispenser, or automated microplate washer.
4. Absorbent paper for blotting the microtiter plate.
5. 100 mL and 500 mL graduated cylinders.
6. Deionized or distilled water.
7. Pipettes and pipette tips.
8. Test tubes for dilution.

Storage

Unopened kit store at 2-8°C. Do not use the kit beyond the expiration date.

Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Detection Range

31.25 pg/ml-2000 pg/ml

Sensitivity

The minimum detectable dose of rabbit NT-proBNP is typically less than 7.81 pg/ml.

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.

Precautions

The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.