



Dengue NS1 Antigen ELISA Kit



Technology: The Dengue NS1 Antigen ELISA kit is an enzyme-linked immunosorbent assay for the qualitative detection of Dengue NS1 Antigen in human serum and plasma.



Accurate Diagnosis : Detects all four serotypes (Den 1,2,3,4) NS1 antigens



Substrate: Ready to use



Conjugate: Ready to use



Controls: Ready to use positive and negative controls



User-friendly: Color coded reagent bottles



Assay time: 120 mins (60 Mins+ 30 Mins+ 30 Mins)



Breakaway wells: Useful for small workload



Open reagent: Adaptable to all ELISA readers and washers



METHODOLOGY

The Dengue NS1 Antigen ELISA Kit is an enzyme immunoassay based on "Sandwich ELISA" detects all four serotypes (Den 1,2,3,4) NS1 antigens in human serum and plasma. Microtitre plates are coated with an antibody specific for DENV NS1. When incubated with specimens and controls, NS1 antigen to Dengue if present in the specimen, bind to the specific antibodies absorbed onto the surface of the wells. After washing away any unbound substances, horseradish peroxidase (HRP) labelled and dengue NS1 antibodies are added and incubates. This conjugate binds to the captured specific antigens, unbound and body-enzyme reagent was removed by washing and substrate solution (TMB) is added to determine the enzyme activity, which leads to development of a blue color. The enzyme-substrate reaction is then terminated by the addition of stop solution to each well. The absorbance is read at 450nm (reference wavelength 620nm) using microplate reader.

TEST PROCEDURE

Add 50 µL N.C to 1B-1D P.C, to 1E-1F	
Add 50 µL of sample diluent in each wells	
Cover the plate and incubate for 60 mins at 37°C	
Wash (6 cycle)	
Add 100 µL of Conjugate solution into each well (Ready to use)	
Cover the plate and incubate for 30 mins at 37°C	
Wash (6 cycle)	
Add 100 µL Substrate	
Incubate in dark for 30 mins at RT	
Add 50 µL Stop Solution and read result at 450 nm/620 nm** (in 20mins)	

PRE-ASSAY PREPARATION

Washing solution 1:20 dilution (eg. 10ml 20x wash solution to 190 ml distilled water)

VALIDATION CRITERIA

NC $\bar{x} \leq 0.33$

PC $\bar{x} \geq 1.0$

DATA INTERPRETATION

Cut-Off Formula: NC $\bar{x} + 0.300$

Samples with an absorbance equal to or greater than or equal to the cut-off value are considered as Reactive.

PERFORMANCE CHARACTERISTICS

Specificity: $\geq 100\%$

Sensitivity: $\geq 100\%$

ORDERING INFORMATION

Product Code	Name of Product	Pack size	Storage	Shelf Life
30201430	Dengue NS1 Antigen ELISA Kit	96 Tests	2-8°C	18 months



IVD

*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.

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