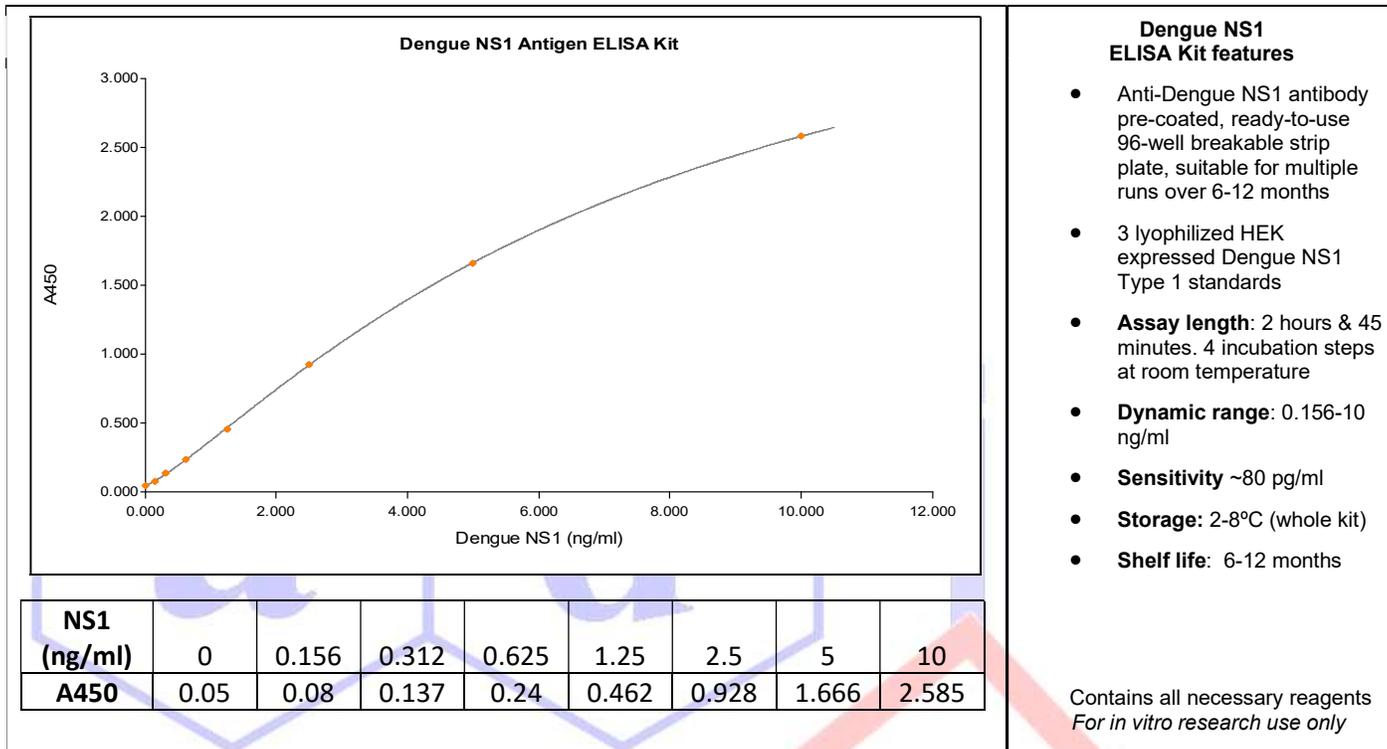


Dengue NS1 Antigen ELISA Kit Cat# DVNS1-100

The Dengue NS1 Antigen ELISA Kit is a highly sensitive sandwich ELISA for the measurement of all 4 serotypes of Dengue NS1 in Serum, Plasma, culture supernatants, and other appropriately qualified matrices.



Dengue NS1 ELISA Kit features

- Anti-Dengue NS1 antibody pre-coated, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6-12 months
- 3 lyophilized HEK expressed Dengue NS1 Type 1 standards
- **Assay length:** 2 hours & 45 minutes. 4 incubation steps at room temperature
- **Dynamic range:** 0.156-10 ng/ml
- **Sensitivity** ~80 pg/ml
- **Storage:** 2-8°C (whole kit)
- **Shelf life:** 6-12 months

Contains all necessary reagents
For in vitro research use only

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipette 100 ul of appropriately diluted samples and calibrators into wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 3.** Add 100 ul of Biotin conjugated detection antibody to each well and incubate for 1 hour at room temperature
- Step 4.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 5.** Add 100 ul of Streptavidin HRP conjugate to each well and incubate for 30 minutes at room temperature
- Step 6.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 7.** Add 100 ul of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
- Step 8.** Pipette 100 ul of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

Performance Characteristics

Sensitivity: ~80 pg/ml (Dengue NS1 Type 1)
Average recovery: 100 ±15%
Average linearity: 100 ±15%
Precision: Intra-assay: <10% Inter-assay: <10%

Serotype cross-reactivity: The NS1 kit recognizes Type 2,3, and 4 NS1 at various degrees relative to the Type 1 standard provided in the kit. To obtain a relative concentration, a general conversion factor can be used:
 Type 2: 0.25%
 Type 3: 0.33%
 Type 4: 0.5%

Minimum recommended dilution

***Serum, Plasma, & Culture supernatants: 10-fold**

Note: Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects and obtain optimal recovery. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve. *It is recommended to use Plasma instead of Serum for optimal performance.