TECHNICAL MANUAL

CHIKV Spike Glycoprotein E2 ELISA Kit

- **SKU CODE: GXEL00474**
- **SIZE: 96 Assays**
- **DETECTION PRINCIPLE: Sandwich ELISA**
- **RUO:** Research-Use-Only

Revised: 10/26

CHIKV Spike Glycoprotein E2 ELISA Kit

Please read entire manual carefully before starting experiment.

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1. Key Features

Sample type

Serum and plasma

Sensitivity

13.5 pg/mL

Range

0.47 - 30 ng/mL

Detection method

Colorimetric (450 nm)

Assay type

Sandwich

2. Storage & Expiry Date

Assay Genie ELISA Kits are shipped on ice packs. Please store this ELISA Kit and/or components as described below. Date of expiration is on the ELISA Box label.

1. For Unopened Kits:

Store the entire, unopened kit at 2-8°C in its original box with a shelf life of 6 months.

For optimal performance extending up to 1 year, it is recommended to store components separately:

- **-20°C:** Standard, Detection Reagent A, Detection Reagent B, and Pre-coated Microplate.
- **2-8°C:** Standard Diluent, Assay Diluent, 20X Wash Buffer, Color Reagent, Stop Solution, and Plate Sealers.

2. For Opened/Used Kits:

- Return any unused well strips to the foil pouch with the desiccant and reseal it tightly.

- Store all remaining reagents according to the conditions above (separated at -20°C or 2-8°C as applicable).
- Reagents are typically stable for about 1 month after the kit is first opened.

Note: Please always refer to the specific instructions provided with your kit.

3. Product Description

The CHIKV Spike Glycoprotein E2 ELISA Kit is a quantitative sandwich ELISA for the measurement of CHIKV Spike Glycoprotein E2 in serum and plasma.

This dual function kit includes validated Bradford Reagent to quantify total protein concentration for accurate sample normalization.

4. Kit Contents

* Provided this is within the expiration date of the kit.

Other Supplies Required

- Microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 630 nm or 620 nm.
- Pipettes and pipette tips.
- Deionized or distilled water.
- 500 mL graduated cylinder.
- Squirt bottle, manifold dispenser, or automated microplate washer.
- Test tubes for dilution of standards.

5. Precautions

1. This kit is for research purposes only and not for diagnostics or therapeutic uses.
2. Store all components as listed in this manual. Do not use the ELISA Kit after its expiration date.
3. Allow all reagents and samples to reach room temperature before use.
4. Ensure unopened and unused plates are kept dry to avoid contamination.
5. Before using the kit, centrifuge tubes to spin down standard and/or antibody.
6. Prepare all reagents, samples and standards as directed in this manual.
7. Duplicate wells are recommended for both standard and sample testing.
8. Do not let the microplate wells dry during the assay.
9. Maintain consistent incubation times and temperatures as variations can affect results.
10. Do not reuse tips and tubes to avoid cross contamination.
11. Avoid using the reagents from different batches together.

6. Sample Collection & Storage

***Note**: For information regarding validation data in specific samples, please contact our Technical Support Team at techsupport@assaygenie.com.*

General Considerations

Other Sample Types

For more information about how to process other sample types, (e.g., body fluids, breast milk & more), please contact our Tech Support Team at techsupport@assaygenie.com.

6.1. Protein Quantification (Optional)

To quantify total protein levels, use the Bradford Reagent included in this kit. Visit Bradford Protein Assay Protocol to view the full protocol.

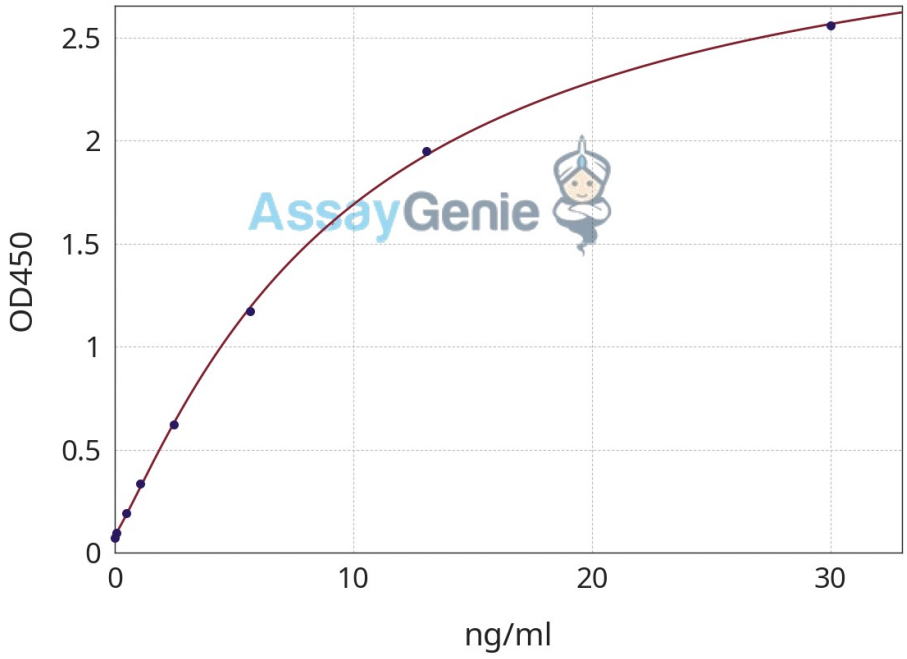
7. Reagent Preparation

Bring all reagents to room temperature before use.

8. Assay Procedure

Bring all reagents and samples to room temperature before use. It is recommended that all standards and samples be assayed in duplicate.

9. Calculation Results



10. Typical Data

Sensitivity

The sensitivity of the CHIKV Spike Glycoprotein E2 ELISA Kit is 13.5 pg/mL.

Precision

- **Intra-Assay Precision (Precision within an assay):** <15%

  Three samples of known concentration were tested sixteen times on one plate to assess intra-assay precision.
- **Inter-Assay Precision (Precision between assays):** <15%

  Three samples of known concentration were tested in twenty four separate assays to assess inter-assay precision.

Note:

Note:

Assay Genie 100% money-back guarantee!

If you are not satisfied with the quality of our products and our technical team cannot resolve your problem, we will give you 100% of your money back.