

Instructions for Use

Version: 1.2.1
Revision date: 12-Aug-24

Dengue Virus NS1 Antigen Rapid Test Kit

Catalog No.: abx090706

Size: 100 tests / 400 tests / 2000 tests / 10000 tests

Storage: Store all reagents at 2-30°C. Keep dry.

Application: For qualitative detection of Dengue Virus NS1 in human serum, plasma and whole blood.

Introduction and assay principle

Abbexa's Dengue Virus NS1 Antigen Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. Any Dengue Virus NS1 Antigen present in the samples combines with the colloidal gold particle-labelled Dengue Virus NS1 antibody. When the concentration of Dengue Virus NS1 Antigen in the sample is more than the detection limit, there is a color change in the detection line and the result is positive. When the concentration of Dengue Virus NS1 Antigen in the sample solution is less than the detection limit, there is no color change in the detection line and the result is negative.

Kit Components

- Test cassettes with pipettes
- Sample diluent

Material Required But Not Provided

- Timer
- Safety lancets
- Specimen collection container
- Centrifuge

Sample preparation

- **Plasma:** Collection blood specimen in a collection tube containing an anticoagulant by venipuncture. Separate the plasma by centrifuge. Carefully collect the plasma and aliquot into a new tube. Store between 2-8 °C for short-term storage (up to 5 days) or -20 °C for long-term storage. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.
- **Serum:** Collect blood specimen into a collection tube containing no anticoagulants by venipuncture. Allow the blood to clot and separate the serum by centrifugation. Carefully collect the plasma and aliquot into a new tube. Store between 2-8 °C for short-term storage (up to 5 days) or -20 °C for long-term storage. Avoid repeated freeze/thaw cycles, bacterial pollution, visible particles; and avoid cloudy, hemolytic, or viscous samples.
- **Whole blood:** Samples should be collected by venipuncture into a collection tube containing an anticoagulant. Do not use hemolyzed blood for testing. Whole blood should be stored at 2-8°C if not tested immediately, and the samples must be tested within 24 hours of collection.

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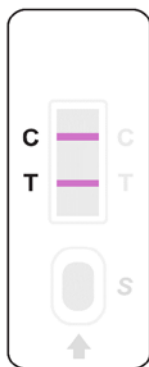
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Assay procedure

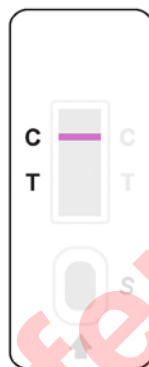
1. Bring the kit components and samples to room temperature. Mix the sample prior to testing.
2. Take a test cassette and lay it flat on a clean table. Using the provided pipette, slowly and vertically add 2 drops (approximately 60 μ l for plasma and serum and approximately 70 μ l for whole blood) of sample to the sample well on the test cassette. Avoid foaming.
3. Add 1 drop (approximately 30 μ l – 40 μ l) to the sample well on the test cassette.
4. Leave at room temperature for 20 min, then analyze the results.

Results analysis

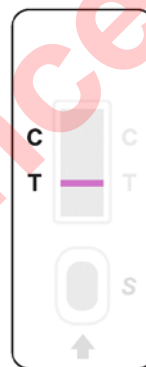
- **Positive result:** A colored line is observed in both the control (C) section and the test (T) section.
- **Negative result:** A colored line is observed in the control (C) section but not the test (T) section.
- **Invalid result:** No colored line is observed in the control (C) section.



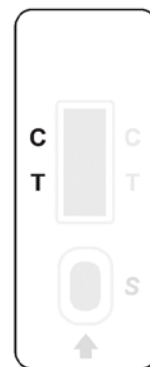
Positive



Negative



Invalid



Invalid

Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible.
3. Samples should be clear with no visible particles, turbidity or bacterial pollution.
4. Do not mix or re-use the disposable pipettes to avoid cross-contamination.
5. Avoid touching the cassette membrane through the sample well or test result window.
6. This kit is for qualitative detection of Dengue Virus NS1 in human serum, plasma and whole blood. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method (e.g. HPLC, LC/MS) for quantitative results.
7. This kit is for research use only and the results are for reference only. It is recommended to use this kit in conjunction with another detection method.
8. All waste should be disposed of appropriately. Please note that you may need to follow special waste

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disposal procedures for infectious samples. Please check local disposal regulations.

For Reference Only