



Product Information & Manual

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Nipah Virus Antigen Rapid Test Kit (25 strips)

Cat no. LDG0002LR

Description

Nipah virus is a highly dangerous zoonotic pathogen primarily prevalent in South and Southeast Asia, posing a significant threat to global public health. Fruit bats of the genus *Pteropus* serve as the primary natural host of the virus. Humans infection can occur through the consumption of contaminated food, direct contact with the bodily fluids of infected animals, or human-to-human transmission. The clinical presentation of Nipah virus infection range from asymptomatic cases to severe respiratory and neurological manifestations, including fatal encephalitis. Due to its high transmissibility and mortality rate, early and accurate diagnosis is crucial for outbreak control.

The Nipah Virus Antigen Rapid Test Kit utilizes the sandwich lateral flow immunoassay (sandwich LFIA) technique and is specifically designed to detect the N protein antigen of the Nipah virus. This method employs specific antibodies to capture and visualize the N protein antigen, providing results rapidly without requiring complex laboratory equipment.

Kit Components

Nipah virus antigen strip	25 strips
Extraction buffer	12 mL, 1 bottle

Sample Requirements and Dilution Conditions

Sample Type	Dilution Requirements
Nipah virus N protein	Dilute to 1-5 ng/mL in Extraction Buffer
Swab specimen	Immerse in Extraction Buffer for lysis

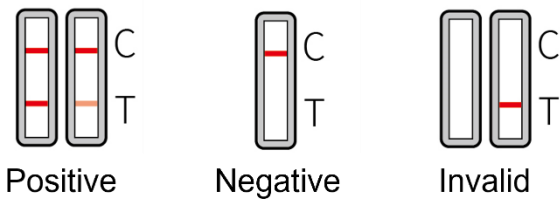
Protocol

1. Remove the test cassette from the foil bag and use it as soon as possible.
2. Place the test cassette on a clean and level surface.
3. Pipette 400 µL of Extraction Buffer into a clean tube.
4. Collect the sample with a swab.
5. Immerse the swab sample into the extraction buffer tube, then roll the swab at least five times.
6. Leave the swab in the extraction buffer tube for one minute to ensure thorough lysis.
7. Pipette 100 µL of the sample into the sample well of the test cassette.
8. Interpret the result after 15 minutes.

Materials required but not provided

1. 100 µL adjustable single-channel micropipettes with disposable tips or disposable droppers (100 µL approximately four drops)
2. Disposable 1.5-2 mL microcentrifuge tubes
3. Timers

Result Interpretation



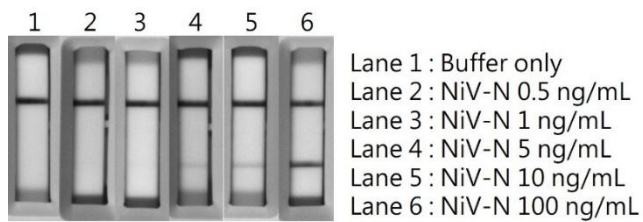
Performance

Nipah Virus Antigen Rapid Test Kit has a minimum detection limit for Nipah virus N protein of approximately 1-5 ng/mL.

Storage

1. Test kits should be stored at room temperature.
2. Test cassettes must remain in sealed foil bags until use as they are sensitive to humidity.
3. Test kits should not be reused.
4. Do not use the kit if the package is damaged, or the physical appearance is altered.

Example



Disclaimer

For Research Use Only. Not for use in diagnostic and therapeutic procedures.