

Patient NAME : Ms Dummy	Report STATUS : Final Report
DOB/Age/Gender : 14 Y/Female	Barcode NO : XXX
Patient ID / UHID : XXX	Sample Type : Body Fluid
Referred BY : Dr. XXX	Report Date : Dec 09, 2024, 05:07 PM.
Sample Collected : Dec 06, 2024, 06:28 PM.	

Fever Panel Qualitative By RT PCR

METHOD	Real Time PCR
Nature of Sample	Serum and other body fluid
Dengue virus	NOT DETECTED
Chikungunya virus	NOT DETECTED
West Nile Virus	NOT DETECTED
ZIKA virus	NOT DETECTED
Plasmodium	NOT DETECTED
Rickettsia	NOT DETECTED
Salmonella	NOT DETECTED
Leptospira	NOT DETECTED

INTERPRETATION:

RESULT	REMARKS
DETECTED	Viral RNA is present in the sample and belongs to either Dengue virus or Chikungunya virus or West Nile Virus or ZIKA virus or Plasmodium or Rickettsia or Salmonella or Leptospira.
INDETERMINATE	Presence of inhibitors in the sample. All indeterminate results should be retested
NOT DETECTED	Sample provided does not contain Viral RNA or number of viral copies are below the detection limit of the assay 10 ³ copies/ml

CLINICAL UTILITY:

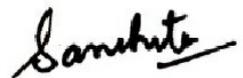
1. Estimate presence or absence of 8 species of fever causing agents.
2. The test helps in guiding while therapy against the infection of the above species.

CLINICAL BACKGROUND:

1. Dengue virus (DENV), West Nile Virus (WNV) and ZIKA virus are single stranded RNA virus of the family Flaviviridae; Genus Flavivirus and Chikungunya virus (CHIKV) single-stranded RNA virus of the genus Alphavirus. All these viruses have an incubation period of 2-12 days. A common symptom is fever and pathogenesis differ for each species.
2. Plasmodium, a genus of parasitic protozoans of the sporozoan subclass Coccidia that are the causative Organisms of malaria and there are mainly four species which are traditionally regarded as causing agents for malaria in humans: Plasmodium malariae, Plasmodium ovale, Plasmodium vivax, and Plasmodium falciparum. The incubation time takes 7 days or more after the first exposure. In malaria, symptoms progress through fever, chills, headache, Nausea and vomiting, Muscle pain and fatigue.
3. Salmonella is a genus of rod-shaped, gram-negative, non-spore forming, and predominantly motile enterobacteria that can cause salmonellosis, a diarrheal illness in humans. Typhoid fever, food poisoning, gastroenteritis, enteric fever, and other illnesses are all types of Salmonella infection.
4. Leptospira are obligate aerobic Gram-negative spirochete bacteria which are transmitted by direct contact with urine or fluids from infected animals or contaminated water. Symptoms are generally high fever, headache, bleeding, muscle pain, chills, red eyes and vomiting. The incubation period is 2 days to 3 weeks. Leptospirosis (Weil 's disease) is a disease caused by infection with Leptospira bacteria.
5. Rickettsia is obligate intracellular, Gram-negative bacteria of the genera Rickettsia, Orientia, Ehrlichia, Neorickettsia and Anaplasma. Rickettsiae are transmitted through saliva or dust of dried faeces of infected ticks, mites, fleas and lice. Symptoms include fever, headache, muscle pain, cough and gastrointestinal problems.

LIMITATIONS OF TEST:

1. Analytical sensitivity may be expressed as the limit of detection: i.e. the smallest amount of the target marker that can be precisely detected. The detection limit of an individual analytical procedure is the lowest amount of nucleic acid in a sample which can be detected but not necessarily quantitated as an exact value.
2. The Limit of detection was determined as the last dilution step at which the ten replicates were detected as positive. The results of this analysis



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show that Limit of detection was at 10^3 copies/ml for CHIKV, DENV, ZIKA, WNV, Plasmodium spp., Salmonella spp., Leptospira spp. and Rickettsia spp.

NOTE :

1. All test outcomes are subject to the nature of the sample received by the Laboratory.
2. Within 7 days after reporting, sample repetitions are acceptable at the request of the Referring Physician.
3. Test results are not valid for medico legal purposes.

*** End Of Report ***



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2. It is to be presumed that the tests performed pertain to the specimen/sample attributed to the Customer's name or identification. It is presumed that the verification particulars have been cleared out by the customer or his/her representation at the point of generation of said specimen / sample. It is hereby clarified that the reports furnished are restricted solely to the given specimen only.
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