



4679 310821



SRF ID : 2748301026842

ACUMAV : 4679

Sample Collection : 07/09/2021 11:10

Name : Ms. Kirti Sinha

Age : 26 Yrs. Sex : F

Sample Received : 07/09/2021 11:10

Ref. By : Self

Printed : 07/09/2021 18:26

Report Released : 07/09/2021 18:07

Sent By : CSMIA (Departure)

Aadhar : 476937661610

SARS-CoV2 (COVID-19) Real Time RT PCR Test

Type of Sample	: Nasopharyngeal Swab in Viral Transport Medium
Method	: RT PCR
E/N gene	: Not Detected
ORF1a/ORF1b/N/N2 Gene	: Not Detected
RdRP gene	: Not Detected
SARS-CoV2 (COVID-19) RT PCR Test result	: NEGATIVE

Test Interpretation and Notes

Positive: Result indicated SARS-CoV-2 RNA is Detected from the patient's specimen by this assay.

Negative: Result indicated SARS-CoV-2 RNA is NOT Detected from the patient's specimen by this assay.

The results relate only to the specimens tested and should be correlated with clinical findings.

Methodology

- Reverse Transcriptase Polymerase Chain Reaction(RT PCR)
- Cumulative threshold (Ct Value) ranges from 15 - 40 cycle. According to many international guidelines, Ct cutoff of more than 35 is not considered as infective as it is extremely difficult to detect any live virus in a sample above the threshold of 35 Cycle. Test has been performed along with Internal Control (i.e. Rnase P). The Ct value of RnaseP should be below 38.
- Further, there are no reliable studies to definitively prove a direct correlation between disease severity / infectiousness and Ct values, therefore it is not recommended to rely on numerical Ct values for determining infectiousness of COVID-19 patients and deciding patient management protocols.

Clinical Significance:

- Coronaviruses are a family of large RNA viruses with size ranging from 26 to 32 kb. These viruses are zoonotic and in human can cause respiratory infections.
- As the coronavirus is an RNA virus it has a relatively high mutation rate resulting in rapid evolution.
- In December 2019, a new deadly coronavirus known as 2019-nCoV, which has a high sequence similarity to SARS-CoV, was identified and has caused a pneumonia outbreak in Wuhan, China and spread globally

Limitation:

- The results of this test are highly dependent on the sampling technique employed, sample type, cold-chain maintenance and clinical condition.
- Presence of PCR inhibitors (cannot be traced by technologist), specimen collected very early/late in infection or viral load lesser than the assay lower limit of detection as well as presence of rare genotypes or mutations may result in false-negative report.
- False-positive report may be obtained in cases where there is possibility of background RNA contamination from pre analytical or in lab environment.
- There is poor standardization between commercially available PCR tests, and results from different institutions should not be directly compared. Results are best monitored using a single institution.

(The ICMR laboratory Registration no. of Acu-MDx Laboratory and Research Center Pvt. Ltd. is **AMLMMH.**)



----- End Of Report -----

Dr. Sumedha Chaudhari

Dr Sumedha Chaudhari
M.D. Microbiology

**Sample has been collected outside the laboratory. The results pertain to the sample received.

Acu-MDx Laboratory and Research Center Pvt. Ltd.

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