



# Dr. Agnihotri's Path Lab & Diagnostic Center

Reg. No.: CL/6000/OCT-2017

Patient ID : 080222091  
Patient Name : MR. VENUS DHARMIK  
Age / Gender : 19 YEARS / MALE  
Ref. By : UNICARE PATHOLOGY  
Center Name : DR. AGNIHOTRI'S PATH LAB & DIAGNOSTIC CENTER

Sample Collected on : 11-Feb-2022 1:39 PM  
Sample Received on : 11-Feb-2022 1:39 PM  
Report Released on : 11-Feb-2022 5:28 PM



## COVID19 Qualitative by Real Time PCR

### Investigation

### Result

Specimen Type : Nasopharyngeal And Oropharyngeal  
**COVID19 Interpretation : Negative**

Real time PCR

ICMR Registration Number- DAPLDIMP

**ORF Gene (CT value ) : Na****N Gene (CT value) : Na**

Qualitative test of COVID19 RNA by standard procedure on rt Real-time PCR.

Reverse transcriptase Real-time Polymerase chain reaction.

### INTERPRETATIONS:

Cycle threshold (Ct value) Value ranges from 15-40 cycle. Lower the Ct value higher is the viral load (Inversely proportional). Kindly correlate with the clinical presentation and findings. According to latest CDC guidelines, Ct cutoff of more than 33 is not considered as infective as it is extremely difficult to detect any live virus in a sample above the threshold of 33 cycles.

### 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.

### LIMITATIONS:

- 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.
- RT-PCR kits used for this assay are approved by ICMR.
- 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.

----- END OF REPORT -----

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Dr. Utkarsha Singh  
MD Pathology

Head Office : Magnet Tower, 6/1, Race Course Road, Indore (M. P.) Ph.: 0731-4061772 Mobile : 9993942466, 7987745064

E-mail : [info@dragnihotripathlab.com](mailto:info@dragnihotripathlab.com) [www.dragnihotripathlab.com](http://www.dragnihotripathlab.com) / [www.dragnihotripathlab.in](http://www.dragnihotripathlab.in)