

## COVID REPORT ( Real Time PCR )

ICMR Registration No: **CNCPLDD**

Passport No:

SRF ID:



Scan QR Code For Report Authentication

Sample Collection Date : 09/Jun/2021 05: 39PM  
 Sample Receiving Date : 09/Jun/2021 05: 45PM  
 Lab Reference No : 012106090032  
 Patient Name : Mr. MAYANK  
 Age/Sex : 25 Y 5 M/Male  
 Ref. Doctor/Hospital : Self  
 Registration Date : 09/Jun/2021 05: 35PM  
 Reporting Date : 09/Jun/2021 06: 01PM  
 Case ID : MM0001

### TEST NAME

**MDX003 COVID-19 VIRUS QUALITATIVE RT-PCR**

### SPECIMEN

Nasopharyngeal Swab/Oropharyngeal Swab

### TEST PRINCIPLE

Real Time Polymerase Chain Reaction (RT-PCR)

### RESULTS

SARS COV-2 Detection **Positive**

| TARGET GENE        | RESULT   | CT VALUE |
|--------------------|----------|----------|
| RDRP GENE CT VALUE | Detected | 13.00    |
| N GENE CT VALUE    | Detected | 21.00    |

### INTERPRETATION

| RESULT                      | INTERPRETATION   |
|-----------------------------|--|
| POSITIVE                    | RNA specific to SARS Cov-2 detected  |
| NEGATIVE                    | RNA specific to SARS Cov-2 NOT detected  |
| INCONCLUSIVE                | Repeat sample recommended for confirmation   |
| E, N and RDRP gene detected | Sample provided is positive for SARS CoV-2   |
| E and N gene detected       | Sample provided is positive for SARS CoV-2   |
| E and RDRP gene detected    | Sample provided is positive for SARS CoV-2   |
| N and RDRP gene detected    | Sample provided is positive for SARS CoV-2   |
| Only RDRP gene detected     | Sample provided is positive for SARS CoV-2   |
| Only N gene detected        | Sample provided is positive for SARS CoV-2   |
| Only E gene detected        | Inconclusive. Presumptive positive for other Sarbecovirus.<br>Repeat sample recommended for confirmation |

**Dr. Sonal Jindal**  
MD Microbiology  
Regd no. 62832



NABL Certificate no - MC-4149



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Consultant Molecular Diagnostics

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Case ID : MM0001

### REMARKS

1. Real Time Reverse Transcription Polymerase Chain Reaction (Real Time RT-PCR) is the gold standard test for detection of SARS-CoV-2. This test enables early detection of viral genome in clinical samples.
2. The cycle threshold or Ct value of a RT-PCR reaction is the number of cycles at which fluorescence of the PCR product is detectable over and above the background signal.
3. ICMR not recommends relying on numerical Ct values for determining infectiousness of COVID-19 patients and deciding patient management protocols.
4. There are no reliable studies to definitively prove a direct correlation between disease severity / infectiousness and CI values. Viral load does not have much role in patient management.
5. CT values can vary depending on several factors like sample collection procedure, type of sample collected, transportation mode and temperature, test kit used and various others.
6. RTPCR test must not be repeated in any individual who has tested positive once by RTPCR or by Rapid Antigen Testing

### NOTES

1. Negative result does not rule out the possibility of Covid-19 infection. Presence of inhibitors, mutations & insufficient RNA specific to SARS-CoV-2 can influence the test result. Kindly correlate the results with clinical findings. A negative result in a single upper respiratory tract sample does not rule out SARSCoV-2 infection. Hence in such cases a repeat sample should be sent.
2. Covid-19 Test are conducted as per kits approved by ICMR / CE-IVD.
3. Kindly Consult Referring Physician /Authorized hospitals for appropriate follow up

### COMMENTS

1. Coronaviruses(CoV) are a large family of viruses that cause illness ranging from the Common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-Cov) and severe Acute Respiratory Syndrome(SARS-CoV).
2. Coronavirus disease (COVID 19) is a new strain that was discovered in 2019 and has not been previously identified in humans.
3. SAR-CoV2 is an enveloped, non-segmented, positive sense RNA virus that is included in the Sarbecovirus, Ortho Corona virinae subfamily
4. Common Sign of infection include Respiratory Symptoms, Fever, Cough, Shortness of breath and breathing difficulties. In more severe cases, infection can cause Pneumonia, Severe Acute Respiratory Syndrome and kidney failure.
5. The SARS CoV-2 detection is real time PCR technology based test, for qualitative detection and differentiation of Beta-Coronavirus and SARS CoV-2 specific RNA
6. The test is targeting N gene and RDRP gene which are specific for SARS CoV-2.

\*\*\* End Of Report \*\*\*

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| Registration Date      | : 09/Jun/2021 05: 36PM |
| Reporting Date         | : 09/Jun/2021 06: 01PM |
| Case ID                | : MM0002               |

### TEST NAME

**MDX003G COVID-19 VIRUS QUALITATIVE RT-PCR**

### SPECIMEN

Nasopharyngeal Swab/Oropharyngeal Swab

### TEST PRINCIPLE

Real Time Polymerase Chain Reaction (RT-PCR)

### RESULTS

SARS COV-2 Detection **Positive**

| TARGET GENE | RESULT   | CT VALUE |
|-------------|----------|----------|
| N GENE      | Detected | 13.00    |
| RDRP        | Detected | 25.00    |

### INTERPRETATION

| RESULT                      | INTERPRETATION   |
|-----------------------------|--|
| POSITIVE                    | RNA specific to SARS Cov-2 detected  |
| NEGATIVE                    | RNA specific to SARS Cov-2 NOT detected  |
| INCONCLUSIVE                | Repeat sample recommended for confirmation   |
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