



832223300002761

**Mrs. TEREJA DBRITTO**JELADI, VATAR SHALA, NANDAKHAL,  
VASAI

Tel No : 9921342057

PIN No: 401301

PID NO: P832200012611

Age: 63.0 Year(s) Sex: Female

**Reference:****Client Address:**Rufina Michael Menezes  
Gopal Ganesh Apartment, Shop No  
27, Unbargothan Naka, Post Agashi  
Tal, Vasai, Palghar-401301. Zone: Virar  
West (W-28c(103))  
Processing Location:- Metropolis  
Healthcare Ltd, Unit No. 409- 416, 4th  
Floor, Commercial Building-1, Kohinoor

Mail: Mumbai-70

**Medical Laboratory Report****VID: 832223300002761**

Registered On:

26/04/2022 02:31 PM

Collected On:

26/04/2022 2:32PM

Reported On:

27/04/2022 02:36 AM

**SARS-CoV-2 (COVID 19) Detection (Qualitative) by Real Time rt PCR\***

<b>Test</b>	: Qualitative RNA detection of SARS-CoV-2 (COVID19)
<b>Specimen Type</b>	: SWAB
<b>Test principle</b>	: Real time reverse transcription PCR (ICMR approved kit)
<b>Test description</b>	: Target gene "RdRp , N, S or ORF1 ab" gene detection

**Result :**

<b>SARS-COV-2 RNA</b>	<b>Negative(NOT DETECTED)</b>
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ICMR guidelines do not recommend sole dependence on Ct Value for patient management.

The kit used for this SARS CoV 2 RT PCR test at Metropolis Healthcare Ltd covers multiple targets and detects most of the possible mutations in current circulation such as delta strain etc. however it may not be able to differentiate between them.

We are sending such samples suspected of mutant strains which are recognised as significant to National influenza centre, Pune for further genome sequencing as per the guidelines issued by ICMR and state as well as local government bodies.

Vaccination doesn't protect against SARS CoV 2 reinfection although vaccination may prevent against development of severe disease. Such cases of reinfection post vaccination may be detected by SARS CoV 2 RTPCR irrespective of symptoms.

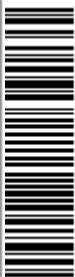
Metropolis lab ICMR registration no. METRO001

**Interpretation guidelines****A. For result as Positive (DETECTED):**

- 1) Positive (DETECTED) result indicates presence of SARS-CoV-2.
- 2) Each Positive (DETECTED) result has been verified using confirmatory test.
- 3) False positive is rare globally.
- 4) A repeat test of freshly collected specimen may give different result due to the following –
  - a. From appearance of symptoms, Viral load reduces day by day and one may clear virus as early as 4.3 days<sup>1</sup>. As viral load reduces during recovery/resolution, the result of repeat testing, even within hours or day/s, can yield different results.
  - b. The new sample may have low viral load due to varied shedding of the virus.
  - c. Inherent variability due to improper sample collection and inadequate storage while due care is taken at Metropolis.
- 5) 80% of patients with Positive (DETECTED) result may be asymptomatic.
- 6) A detected result does not distinguish between a viable/replicating organism and a non-viable organism

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**B. For result as Negative (NOT DETECTED):**

- 1) Negative(NOT DETECTED) result indicates absence of SARS-CoV-2 in the given specimen. However, it does not rule out the infection completely and should not be used as the sole basis for making decisions related to treatment and other patient management decisions.
- 2) Negative(NOT DETECTED) result may be seen due to -
  - a. RT PCR done on Nasopharyngeal swab having 44% false negativity.
  - b. Test done too early or too late where the virus load is below detection limit.
  - c. Improperly collected and stored specimen.
  - d. Viral mutations
- 3) If a subsequent test is tested positive (detected), it may indicate an infection acquired subsequently or increase in viral load to detectable level after the first test.

**Disclaimers:**

1. RNA viruses like SARS-CoV-2 (COVID 19) have a lot of genetic variability and it's possible that certain virus detection kits test cannot detect some strains of the viruses. Although efforts were made by manufacturers of the diagnostic kits to design the test assays that target the parts of viral genome which are shared by all the different circulating viral strains, there still might be some mismatch between the primers and the probes used in the test and the target regions within the viruses.
2. Sensitivity of this test results depends upon the quality of the sample submitted for testing, stage of infection, type of the specimen collected for testing, medical history and clinical presentation.
3. All approved kits being used also may have different positive and negative predictive values leading to mismatch of results.
4. A careful consideration to combination of epidemiological factors, stage of infection, clinical history, examination, other relevant investigation findings and treatment history should be done when interpreting test results.
5. Current knowledge about novel coronaviruses is evolving and more studies may be required for further evaluation and review of facts indicated in this report.

**Patient Instructions:**

- Kindly consult referring Physician/ Authorized Govt. hospital for appropriate follow up.
- Details of all the positive patients will be communicated to Epidemiology Cell whom you are requested to support.
- "Detected" status needs to be notified to the appropriate authorities as per the existing rules/regulations, while we shall also be doing the same.

**Clinical Background:**

COVID-19 is a new disease, caused by a novel (or new) coronavirus SARS-CoV-2. Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed COVID-19 cases. Symptoms like Fever, Cough, and Shortness of breath may appear 2-14 days after exposure. The virus is thought to spread mainly from person-to-person, between people who are in close contact and through respiratory droplets. It can also spread from contact with infected surfaces or objects.

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**References:**

1. Tao Ai et al. Correlation of Chest CT and RT-PCR Testing in Coronavirus Disease 2019 (COVID-19) in China: A Report of 1014 Cases
2. Yang et al. Evaluating the accuracy of different respiratory specimens in the laboratory diagnosis and monitoring the viral shedding of 2019-nCoV infections.

**Abbreviations**

ICMR : Indian Council of Medical Research

**-- End of Report --**  
*Niranjan B. Patil***Dr. Niranjan Patil**  
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