Patient Name	: Mr. AMIT KUMAR JHA	Collected	: 25/Dec/2022 08:31PM
Age/Gender	: 26 Y 6 M 21 D /M	Received	: 25/Dec/2022 09:19PM
UHID/MR No	: APJ1.0019284724	Reported	: 26/Dec/2022 09:24AM
Visit ID	: DMNEOPV16418	Status	: Final Report
Ref Doctor	: Dr.SELF	Client Name	: PUP 24X7_CREDIT
IP/OP NO	:	Patient location	: Munnekola,Bangalore

DEPARTMENT OF MOLECULAR BIOLOGY.

COVID 19 RT PCR WITH HOME COLLECTION

Test Name	Result	Unit	Bio. Ref. Range	Method

COVID-19(SARS-CoV 2)-REAL TIME PCR(RT-PCR)

SAMPLE TYPE	NASOPHARYNGEAL SWAB AND OROPHARYNGEAL SWAB			
SARS-CoV-2	**DETECTED**			
N-Gene CT VALUE	18			
ORF1ab Gene CT VALUE	19			

SRF ID : 2952530430631

Comment:

> **Biological Reference Rang**
>
> ***Ct value < 35 is Positive**
> ***Ct value >35 is Negative**
>
> <35   35   35>
>
> ***Ct cutoff suggested by ICMR**
> **Ct value does not correlate with**
> **disease severity**

Please Note:

*The cut-off of the reported CT value is as per the manufacturer.

*CT values vary with the type of kit used, the types of samples collected and the various pre-analytical factors.

*The published studies are conflicting to definitively prove a direct correlation between disease severity/infectiousness and CT
values therefore; relying on CT values for determining infectiousness of COVID-19 patients and deciding management protocols
is left to clinical discretion.

Kit used: CoviPath ™ COVID-19 RTPCR KIT

Result	Interpretation
Detected (Positive) Result	Indicates presence of detectable levels SARS-CoV-2 specific RNA (ORF1ab gene and/ or N gene) in patient's sample.
Not Detected (Negative) Result	Indicates absence of detectable levels SARS-CoV-2 specific RNA (ORF1ab gene and/ or N gene) in patient's sample.

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Indeterminate Result	Indicates the target concentration is too low, or presence of interfering substances leading to PCR inhibition.			

NOTE:

- If either of the genes cannot be determined or will give indeterminate results, further testing maybe required using another kit with a different primer and probe.
- A **Not Detected (Negative) Result**do not preclude SARS-CoV-2 and should not be used as the sole basis for patient management decisions. Kindly repeat test after 48 to 72 hrs if clinically suspected.
- Lower respiratory tract specimens are more representative and are preferred.
- If at a later date, suspicion of COVID-19 is strong, a fresh sample for Real Time PCR after a gap of 2-4 days after collection of first sample maybe considered.
- Please contact your Physician for necessary action to be taken and to limit the spread of infection.
- Clinical Correlation and Correlation with the history of the patient is required before arriving at any conclusion. Presence of Non-Specific interfering substances during this assay to be kept in mind. Please correlate clinically before arriving at any conclusion.
- False positive and false negative results can be due to multiple factors including sampling technique, transport & interference in the assay can affect the result.
- Presence PCR inhibitors in sample may lead to false negative or invalid results.
- Mutation in the target sequence of SARS-CoV-2 or change in the sequence due to virus evolution may lead to false negative results.
- Invalid Result: There is no typical S-shape amplification curve or Ct >35 or No Ct detected for target genes and internal control, indicating the specimen concentration is too low, or there are interfering substances that inhibit the reaction. If upon retest, the result is invalid again, another fresh sample should be collected and tested.

SARS-CoV-2 Virus:

SARS-CoV-2 is an enveloped single stranded positive sense RNA virus belongs to family Coronoviridae. It carries largest single stranded RNA genome of ~30kb and is the causative pathogen of ongoing COVID-19 pandemic (3). The capsid consists of the nucleocapsid protein N and this is further surrounded by a membrane, that contains three proteins: the membrane protein (M) and the envelope protein (E), which are involved in the virus budding process, and the spike glycoprotein (S), which is a key player in binding host receptor and mediating membrane fusion and virus entry into host cells (4).
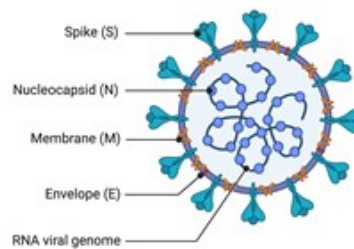
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COVID 19 RT PCR WITH HOME COLLECTION

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Coronavirus Structure

Disclaimer:

This Test is based on real-time reverse transcriptase PCR technology for the qualitative detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) specific RNA

*ICMR ID-AHLLBHT- HYDERABAD

*ICMR ID-AHLVDLA- VIJAYAWADA

*ICMR ID- DLUAHTMH- MUMBAI

*ICMR ID-AHLLKDLKAP- KURNOOL

*ICMR ID-ADNTKLKWB- KOLKATA

*ICMR ID-AHLLDLDD-DELHI

*ICMR ID-AHLLKDIALBK- BENGALURU

*ICMR ID-APHLILKDLCTN- CHENNAI

*ICMR ID-AHHHSPPMH- PUNE

*ICMR ID-APHLTHLFLADLCK- LUCKNOW

(For kits determining RdRp gene or ORF1b, sensitivity / specificity of such kits shall be mentioned).
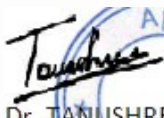
COVID-19 Advisory

Stop the Transmission, Crush the Pandemic.

Office of the Principal Scientific Adviser to the Government of India

Wear Double Masks | Keep Areas Well-Ventilated | Maintain Physical Distancing | Wash Hands with Soap Often | Isolate COVID positive patients | Disinfect Surfaces Regularly

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COVID 19 RT PCR WITH HOME COLLECTION

Test Name	Result	Unit	Bio. Ref. Range	Method

*** End Of Report ***

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