

## LABORATORY REPORT



Name : MAYURKUMAR PATEL.9909995141	Sex/Age : Male / 25 Years	Case ID : 10100302900
Ref. By : Dr. Vimal Ranka.	Dis. At :	Pt. ID :
Bill. Loc. : Rajasthan Hospital		Pt. Loc. :
Reg Date and Time : 25-Jan-2021 11:56	Sample Type : Nasopharyngeal + Oropharyngeal Swab	Mobile No. :
Sample Date and Time : 25-Jan-2021 11:56	Sample Coll. By : non	Ref Id1 : CAT-6
Report Date and Time : 25-Jan-2021 15:19	Acc. Remarks	Ref Id2 : RJ-2752

TEST	RESULTS	UNIT	BIOLOGICAL REF RANGE	REMARKS
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### Genomics

#### COVID19 Qualitative by Real time PCR (ICMR No. SUPRA001f)

COVID19 Interpretation <i>Real time PCR</i>	NEGATIVE
N gene (Ct)	Negative
Orf gene (Ct)	Negative
S gene (Ct)	Negative

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

**Methodology:** 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 in lab environment.
- The assay performance characteristics for this test are determined by STMP which is used for clinical diagnosis. This test is not approved by FDA nor accredited by NABL or CAP.
- RT-PCR kits used for this assay are approved by ICMR (Supratech Micropath Laboratory & Research Institute Pvt. Ltd. ICMR No. SUPRA001f).
- 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 -----

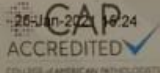
Note: (LL-Very Low, L-Low, H-High, HH-Very High, A-Abnormal)

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Printed On : 26-Jan-2021 14:24  
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COLLEGE OF AMERICAN PATHOLOGISTS

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