| | | | |
|---|---|---|---|
| **CID** | : 2110644187 | **SID** | : 177803369199 |
| **Name** | : Yashmeet Rout | **Registered** | : 19-Sep-2021 / 16:54 |
| **Age / Gender** | : 7 Years / Male | **Collected** | :19-Sep-2021 /17:11 |
| **Dr.** | : | **Reported** | :20-Sep-2021 /15:35 |
| **Reg. Location** | : Kandivali East (Main Centre) | **Printed** | :20-Sep-2021 /15:55 |

REPORT

## Real time Qualitative RT-PCR detection of 2019-nCOV RNA / COVID-19 RNA

| PARAMETER | RESULT |
|---|---|
| Result | SARS-CoV-2: Not Detected (Negative) |

Kit:Viral Detect II Multiplex(Genes2Me),Target gene(RdRP & N),Cutoff:<37

**ICMR Registration No: Andheri-Mumbai-** SUBUR001, **Pune**-SUDIIPLPMH

**Specimen:** Nasopharyngeal & Oropharyngeal swab in VTM **Method**: Real time RT-PCR

**Note:**

- **Ct value indicates the infectivity and not severity of infection.**
- ICMR recommended kits are used for reporting. All the positive cases will be notified to ICMR for further surveillance.
- Clinical correlation with patient history, radiology findings and co-infection with other virus infection is necessary to be determined especially in cases with Borderline positive Ct values.
- Borderline positive cases (Ct Value >30) may give variable results on repeat testing. The possible reasons could be the variations in kits and instruments used.

**Limitations:**

- Optimum specimen types and timing of peak viral levels during infections caused by 2019-nCOV have not been determined. Collection of multiple specimens (Types & Time points) may be necessary in view of suspected clinical history. The repeat specimen may be considered after a gap of 2-4 days after the collection of first specimen for additional testing if required. (other respiratory pathogens)
- Negative results do not preclude SARS - CoV - 2 infection and should not be used as the sole basis for patient management decisions.
- This test is a qualitative assay and does not quantify viral load. Various host factors, viral factors, variability in sample collection / site and techniques used by the laboratories can affect Ct values. Therefore, Ct values are not an absolute indication of viral load and should be interpreted with caution.

**Factors leading to false negative RT-PCR report:**

- Inadequate specimen collection, Poor quality of sample and non-representative sample.
- Sample collected too early or too late in the infection, Improper sample handling and shipment.
- Technical reasons- PCR Inhibitor, analytical sensitivity of kit used.
- Active recombination &/ mutations in target genes used for detection of SARS-CoV-2 virus.

**References:**

1. Diagnostic detection of 2019-nCoV by real-time RT-PCR, Berlin Jan 17th, 2020.
2. Labcorp COVID-19 RT-PCR test EUA Summary / COVID-19 RT-PCR test (laboratory corporation of America).

* Sample processed at Molecular Diagnostics Laboratory, CPL, Andheri West

*** End Of Report ***

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