

RT-PCR (NAAT) TEST RESULTS REPORT FOR SARS-CoV-2**PATIENT'S NAME:** NAME APP1 APP2**ID/PASSPORT:** IDENTIFICATION**DATE OF BIRTH:** 20/11/1995**GENDER:** FEMALE**REASON:** Reason of testing**SAMPLE CODE:** TEST_PCR**TEST NAME:** RT-PCR test (NAAT - Nucleic Acid Amplification Test) for SARS-CoV-2.**SAMPLE RECEIVED:** Nasopharyngeal swab.**OBJECTIVE OF THE GENETIC STUDY:**

The objective of this procedure is to detect by RT-PCR (NAAT) three specific genes of the SARS-CoV-2 pathogenic viral strain, using the **TaqPath COVID-19 CE-IVD RT-PCR Kit (ThermoFisher, USA)**, which simultaneously detects three highly conserved regions (genes encoding **ORF1ab, N Protein and S Protein**) of the RNA SARS-CoV-2 virus, along with an internal positive control (MS2-IPC) in a single PCR reaction.

ANALYSIS CARRIED OUT - METHODOLOGY:

1. Obtaining the viral RNA using the following reagents and commercial kits:

- Viral MagBead (Zymo Research)

2. Viral RNA purification using the following automatic platform:

- Nucleic Acid Purification System PurePrep 96 (Molgen)

3. RT-PCR (NAAT) using the TaqPath COVID-19 CE-IVD RT-PCR Kit (ThermoFisher) and detection of ORF1ab, N Protein and S Protein regions of the SARS-CoV-2 virus in:

- QuantStudio 5 Real-Time PCR instrument (ThermoFisher)

RESULT:

RT-PCR Test (NAAT) Result for SARS-CoV-2

POSITIVE

Viral load and CTs for SARS-CoV-2 in the sample*

MEDIUM

CT ORF 1ab: 27.3

CT N Protein: 27.1

CT S Protein: 27.2

* We inform the viral load inferred from the CTs (Cycle Threshold) of the three SARS-CoV-2 from the analysis of your sample. An average value less than 25 is considered high, from 25 to 32 medium and above 32 low. For negative cases, this is not applicable. The CTs for positive COVID results indicate the number of duplications (cycles) to confirm a positive presence of each of the three COVID genes that we detect to determine a clinical diagnosis. Lower numbers indicate higher viral load meaning a more severe case; greater capacity for contagiousness and, in general, a longer time to recover and obtain a non-contagious (negative) result.

The new SARS-CoV-2 variants may impact the CT values of certain genes. However, our test detects all the known variants of the virus.

The procedure and the results obtained have been validated by:

Signature:

Name and surname:

Test DoctorName in Release Environment, Ldo. number

