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MOLECULAR BIOLOGY DEPARTMENT

COVID-19 PCR TEST REPORT:

SPECIMEN	NASOPHARYNGEAL SWAB
RESULT	NEGATIVE

COMMENT :

Virus of COVID-19 fast spread across the world emphasized the need of most countries to respond properly to such a new virulent pathogen.
SARS-COV2 (Severe acute respiratory syndrome corona virus 2, is responsible for COVID-19 disease that was spread from Wuhan City of China to whole world.
Since the reporting of full genome of COVID-19 by Chinese Center for Disease Control and Prevention, several target genes have been announced to screen and identify the COVID-19 infected cases.
The method used in this test is TaqMan-based
1-step RT-q PCR assays.
Limitations: 1-rare mutations within target regions may affect the primers and / or probe recognition sites and lead to PCR failure.
2-SARS COV2 detection depends on the number of copies present in the specimen that may be affected by specimen collection methods, transport and/or storage, also patient factors, and / or stage of infection.
3-The assay analytical sensitivity is 10 copies /reaction, so any specimen with a result of not detected cannot be assumed to be negative.
4-Negative results don't preclude SARS COV2 infection and should not be used as the sole basis for treatment or patient management.
5- The collection of multiple specimens (type and time points for the same patient may be necessary to detect the virus.
6- The results of the test should be evaluated by a health care professional in the context of medical history, clinical symptoms and other diagnostic tests.

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