

**COVID-19 RT-PCR test results interpretation**

SARS-CoV-2 N1	SARS-CoV-2 N2	SARS-CoV-2 N3	RNase P	Result Interpretation	Report	Actions
+	+	+	+/-	SARS-CoV-2 Detected	POSITIVE	Report results to sender and appropriate public health authorities.
If only one or both targets are positive		+/-	+/-	SARS-CoV-2 Detected	POSITIVE	Report results to sender and appropriate health authorities.
-	-	+	+/-	SARS-CoV-2 is Presumptive Positive	PRESUMPTIVE POSITIVE	Sample is repeated once. If the repeated result remains "PRESUMPTIVE POSITIVE", additional confirmatory testing may be conducted, if it is necessary to differentiate between SARS-CoV-2 and other SARS-like viruses for epidemiological purposes or clinical management.
-	-	-	+	SARS-CoV-2 Not Detected	NEGATIVE	Report results to sender.
-	-	-	-	Invalid Result	INVALID	Sample is repeated once. If a second failure occurs, it is reported to sender as invalid and recommend recollection if patient is still clinically indicated.

**Fig. 10.2** LabCorp COVID-19 RT-PCR test EUA Summary. Table reference: <https://www.fda.gov/media/136151/download>

as of now, higher percentage of false positive and false negative results have been confusing the diagnosis. It is not considered a standard approach, Governments and Authorities have been recommending getting the RT PCR testing done even if someone has tested negative with Rapid kits in COVID Cases.

**References**

1. van Kasteren PB et al (2020) Comparison of seven commercial RT-PCR diagnostic kits for COVID-19. J Clin Virol 128:104412
2. Coronavirus Disease 2019 (COVID-19) Novel coronavirus (2019-nCoV) real-time RT-PCR primers and probes. Centre for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/lab/rt-pcr-panel-primer-probes.html>
3. <https://www.fda.gov/media/136151/download>
4. [https://www.biopanda.co.uk/php/products/rapid/infectious\\_diseases/covid19.php](https://www.biopanda.co.uk/php/products/rapid/infectious_diseases/covid19.php)
5. COVID-19 IgG/IgM Rapid Test Kit, Elabscience. [https://www.elabscience.com/p-covid\\_19\\_igg\\_igm\\_rapid\\_test-375335.html](https://www.elabscience.com/p-covid_19_igg_igm_rapid_test-375335.html)