

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

TECHNICAL ::: NOTE

In December of 2019, an outbreak of Coronavirus Disease 2019 (COVID-19) caused by a novel coronavirus (SARS-CoV-2), began in Wuhan City, Hubei Province, China. The full genome of this newly discovered betacoronavirus was released by the Chinese Center for Disease Control and Prevention, the Chinese Academy of Science and the Chinese Academy of Medical Science through the GISAID Initiative (<https://www.gisaid.org/>).

Through bioinformatic analysis of the released genomes (as of January 14, 2020), BioFire Diagnostics **does not predict cross-reactivity with the SARS-CoV-2 with any current FilmArray Coronavirus assay**. This includes the Coronavirus 229E, HKU1, NL63 and OC43 assays on the BioFire® FilmArray® Respiratory Panels (RP, RP-EZ, RP2) and the BioFire® FilmArray® Pneumonia Panel as well as the Middle East Respiratory Syndrome Coronavirus (MERS-CoV) assays on the BioFire® FilmArray® Respiratory Panel 2 *plus* (RP2*plus*) and the BioFire® FilmArray® Pneumonia Panel *plus*. Please see corresponding table for interpretation of “Coronavirus” Detected results for each panel.

Panel	Result Reported	Interpretation
Pneumonia Panel, Pneumonia Panel <i>plus</i> and RP-EZ	Coronavirus Detected	Coronavirus 229E, HKU1, NL63 or OC43 detected in the specimen
Pneumonia Panel <i>plus</i> and RP2 <i>plus</i>	Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Detected	MERS-CoV detected in the specimen
RP, RP2 and RP2 <i>plus</i>	Coronavirus 229E Detected	Coronavirus 229E detected in the specimen
RP, RP2 and RP2 <i>plus</i>	Coronavirus HKU1 Detected	Coronavirus HKU1 detected in the specimen
RP, RP2 and RP2 <i>plus</i>	Coronavirus NL63 Detected	Coronavirus NL63 detected in the specimen
RP, RP2 and RP2 <i>plus</i>	Coronavirus OC43 Detected	Coronavirus OC43 detected in the specimen

Please refer to the CDC and WHO for guidelines on testing specimens from patients under investigation (PUIs) for Coronavirus Disease 2019 (COVID-19).

- <https://www.cdc.gov/coronavirus/2019-ncov/lab/guidelines-clinical-specimens.html>
- <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/laboratory-guidance>

Technical Support Contact Information

BioFire is dedicated to providing the best customer support available. If you have any questions or concerns about this process, please contact the BioFire Technical Support team for assistance.

BioFire Technical Support

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