



SARS-CoV-2 Antibody Test

New IgM + IgG Antibody Test For The Novel Coronavirus (SARS-CoV-2): A More Accurate, Less Invasive, And Safer Test Option

WHY TEST FOR SARS-COV-2 ANTIBODIES IN BLOOD?

Many currently available tests for SARS-CoV-2 (the virus that causes COVID-19) are a RT-PCR test (reverse transcription polymerase chain reaction) done via an invasive and often painful nasal swab. This method of sample collection also puts the staff collecting the sample at risk for exposure to the virus. The Great Plains Laboratory (GPL) has been conducting IgG and IgE antibody blood tests for more than 20 years. The SARS-CoV-2 Antibody Test from is less invasive than the nasal swab test for the patient (currently available as a blood draw) and safer for the staff conducting the test, since they are less likely to be exposed to the virus during sample collection.

Antibody testing reveals both active infections (IgM antibodies) as well as previous exposure (IgG antibodies) to **determine who would require quarantine and who is safe to return to work (even if asymptomatic)**. Antibodies are more evenly distributed throughout the blood stream than RNA is and the antibodies are highly specific to this virus.

The SARS-CoV-2 Antibody Test from GPL, a fully automated, bead-based immunoassay, looks for both IgM and IgG antibodies to the virus. Studies of the specificity of the antibody tests for the SARS-CoV-2 virus used at GPL show there is no interference with other coronaviruses such as CoV-OC43, CoV-229E and CoV-NL63, and CoV-HKU1 viruses.

RT-PCR SWAB TESTING ISSUES

1 out of 3 positives are missed.

The goal of the swab is to obtain RNA of the virus for testing. RNA is extremely unstable, and **RNA is not evenly distributed** in the patient's passageway. The swab must come in direct contact with RNA for a potential positive result to show.

ANTIBODY BENEFITS

Antibodies for the virus are evenly distributed throughout the bloodstream, creating a more accurate detection.

Clinical Significance

Infection Stage:

Test Result Type

RT-qPCR

IgM

IgG

Early stage detection



Active phase infection detection



Late or recurrent stage



Recovery state



Recovered from a past infection



The Great Plains Laboratory, Inc.

Learn more at gplcovidtest.com or contact Caitlin Dickson at (913) 549-8356 or cdickson@gpl4u.com to discuss details, phlebotomy services, and order your testing today.