

COVID-19 Multi-Antigen Serology Panel

Semi-Quantitative detection of antibodies to SARS-CoV-2

Who We Are

Genalyte is a CAP accredited, CLIA certified lab specializing in large scale serology testing. Our Maverick™ SARS-CoV-2 Multi-Antigen Serology Panel uses a multiplex format to test patient samples for antibodies to five SARS-CoV-2 proteins. The result is unparalleled accuracy across a variety of patient populations.

Assay Overview and Performance

Maverick™ SARS-CoV-2 Multi-Antigen Serology Panel is designed to test for SARS-CoV-2 antibodies as well as other viruses that have similar symptoms but are not COVID-19. Unlike competitive serology tests that only detect antibodies to two SARS-CoV-2 antigens, the Maverick™ SARS-CoV-2 Multi-Antigen Serology Panel detects five SARS-CoV-2 antigens. The larger number of antigens tested reduces false positives and negatives that less specific, two antigen detection devices produce. As a result, our multiplex solution can be effectively used in ambulatory and inpatient settings.

General Population: 7-14 days

MAVERICK	PCR Result		
	Pos	Neg	
Pos	46	0	46
Neg	7	303	310
	53	303	

Sensitivity 87%
Specificity 100%
Accuracy 98%

Post Seroconversion: > 14 days

MAVERICK	PCR Result		
	Pos	Neg	
Pos	86	0	86
Neg	2	303	305
	88	303	

Sensitivity 98%
Specificity 100%
Accuracy 100%

Assay Specifications

Antibodies Detected	IgG, IgM
Number of Targets	18
Time to Result	20 minutes
Sample Type	EDTA Whole blood, serum
Detection Method	Photonic Ring Resonance
Min. Sample Volume	20ul with EDTA anticoagulant
Sample Stability	2-8°C (4 day WB; 7 day Serum)

Panel Antibodies

SARS-CoV-2	Anti-Nucleocapsid IgG and IgM Anti-Spike S1 RBD IgG and IgM Anti-Spike S1S2 IgG and IgM Anti-Spike S2 IgG and IgM Anti-Spike S1 IgG and IgM
SARS-CoV	Anti-Nucleocapsid IgG and IgM
MERS	Anti-S1 IgG and IgM
Influenza	Anti-H1 IgG and IgM Anti-H3 IgG and IgM

COVID-19 Multi-Antigen Serology Panel

Semi-Quantitative detection of antibodies to SARS-CoV-2



Our Platform

The Maverick™ Diagnostic System (MDS) uses silicon chip based photonic ring resonance technology to perform multiple simultaneous rapid tests on a small volume of whole blood. The system is cloud-connected for assay protocol retrieval and clinical oversight. Results are available in 20 minutes. FDA Cleared in 2019 .

Maverick Immunoanalyzer

- Benchtop solution available for Point-of-Care or Core Lab
- Can run four patients simultaneously
- Runs multiplex panels with results in 20 minutes
- 250 patients/day
- High sensitivity and specificity
- Cloud-connected with CLIA/CAP pathology oversight
- 11" high X 16" wide X 23" deep



Sample Collection and Shipment



- One 4ml EDTA tube is the recommended sample type⁽¹⁾
- Tubes must be barcoded and accessioned onsite using Genalyte's physician portal
- Samples should be shipped for overnight delivery at 2-8°C
- Packaging and transport of specimens should meet IATA and DOT requirements
- Samples should be shipped to the Genalyte Core Lab identified in the LSA

⁽¹⁾ An alternative would be serum collected in a 4 ml SST tube