

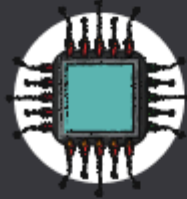
WHY CHOOSE VIBRANT'S COVID-19 IMMUNE CHECK TEST?

HIGHEST
ACCURACY
AVAILABLE OF 12
BIOMARKERS:
97% SENSITIVE
99% SPECIFIC



SUPERIOR TO TRADITIONAL ELISA TESTING

A 2004 Journal of Microbiology study of SARS found ELISA detection of combined IgG, IgM & IgA antibodies to be only 35.8% sensitive *



SILICON MICROARRAY

Simultaneously measures IgG, IgM & IgA antibodies to all 4 antigens to the SARS-CoV-2 genome:
S1 Spike Protein
S2 Spike Protein
RBD- Receptor Binding Domain
Nucleoprotein



MEASURES ALL 3 ANTIBODY RESPONSES

IgM: Early indicator of virus, elevates at 3-4 days from exposure

IgG: Elevates at day 9-10 of viral course

IgA: Can indicate mucosal response in GI tract to correspond to those symptoms



CHEMILUMINESCENCE & ANTIBODY STRIPPING

Chemiluminescence: high-powered light detection that is 4-6 orders of magnitude stronger than ELISA to detect lower antibody levels
Antibody Stripping: proprietary method to strip out excess IgG and isolate IgM to better detect acute reactions.



The test analyzes the following antibodies via one tube of blood and is now FDA approved/validated.



What Does the Vibrant COVID-19 Test Include?



IgG, IgA and IgM antibodies against the following antigens are tested:

- ✓ **S1 Spike protein** - The S1 subunit of the ectodomain mediates binding of the virion to host cell-surface receptors through its receptor-binding domain (RBD)
- ✓ **Receptor Binding Domain** - Part of the S1 Spike subunit that actually binds to the ACE2 receptor of human epithelial cell
- ✓ **S2 Spike protein** - The S2 subunit fuses with both host and viral membranes, by undergoing dramatic structural changes
- ✓ **Nucleoprotein** - Packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. Plays an important role in enhancing the efficiency of subgenomic viral RNA transcription as well as viral replication.



Test Methodology:

Qualitative chemiluminescence-based antibody detection using an array of 4 COVID-19 antigens.



Vibrant COVID-19 Immunecheck

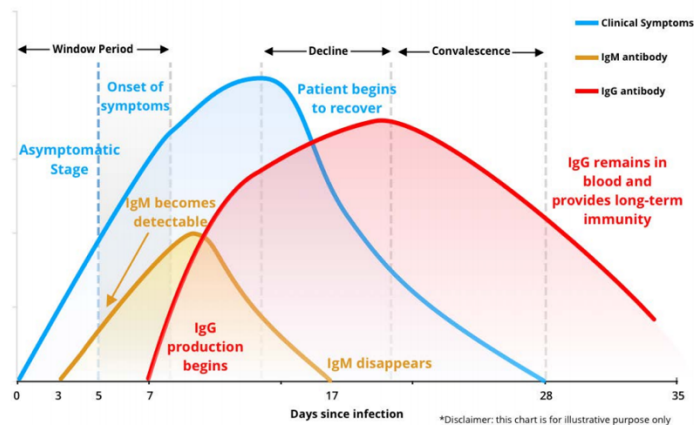
The CDC reports that the following symptoms may appear 2-28 days after exposure:

- | | |
|--|--|
| <input type="checkbox"/> Coughing | <input type="checkbox"/> Body aches |
| <input type="checkbox"/> Fever | <input type="checkbox"/> Headaches |
| <input type="checkbox"/> Shortness of breath | <input type="checkbox"/> Gastrointestinal distress |
| <input type="checkbox"/> Sore throat | <input type="checkbox"/> Diarrhea |
| <input type="checkbox"/> Fatigue | <input type="checkbox"/> Abdominal cramping |



Why Test Antibodies?

- Antibodies have been found to be a highly sensitive biomarkers in infectious disease diagnosis, previous studies on SARS, MERS and more recently the ones on SARS-CoV2 have shown IgM antibodies to appear about the 3rd day from infection and IgG antibodies appear after 8 days. Profiling an individual's antibody response is the only way to determine infections with few or no symptoms.
- Studies in China,¹ the country of origin, have shown that antibody tests have 100% sensitivity in COVID19 disease population. The serology shows the *modulation of the immune system within days of infection and patterns from Day 0 to day 5 have been documented.*





Quick Interpretation of Results

Advantage of testing all three types of antibodies:

Profiling an individual's antibody response is the only way to determine infections with few or no symptoms and allow for better interpretation as below:

IgM	IgG/IgA	Interpretation
NEG	NEG	Patient may not be infected or in the window of infection if DNA results are positive from NP or fecal swabs. Consider follow up within few days if symptoms persist or refer patient out for a confirmatory NP swab test.
POS	NEG	Patient may be in the early stage of infection
POS	POS	Patient may be in the active phase of infection
NEG	POS	Patient may be in the late or recurrent stage of infection

To book an appointment for this test, please download our testing reservation form on the <https://revolutionarymd.com> homepage and email it to us to set up appointment for test. You must be free of fever and any cold or Covid-like symptoms for a week, and preferably 2 weeks prior to doing this test. This is not a test for to see if you are coming down with Covid, but a test to show if you have had it, and want confirmation of this and probable immunity. Cost is \$190 and not covered by insurance. There may be tests covered by insurance in future, but I do not know which labs or when this will be available.

When coming in for test:

Please wait in the car or at the park next to our office 10 minutes prior to your scheduled appointment.

Park in a guest spot.

Address: 3400 E. Bayaud Ave. Suite 444, Denver, Co. 80209

Wear a mask if you have one. We have very limited supplies.

We will call your cell when ready to have you come up and test.

Please email us at revmdoffice@gmail.com or call us at 303-355-2385 if further questions.

Thank you!

RevolutionaryMD team and Dr. Grover.