



SARS-CoV-2 Insta-test

By GLC Medical

OUR EXPERTISE

GLC Medical (GLCM) Inc. is a subsidiary of Graphene Leaders Canada (GLC) Inc., a Canadian graphene technology company that produces high quality, high purity graphene nanomaterials that function as a platform technology, adding value across numerous applications. GLC can tailor its graphene into customized solutions, offering innovative first-to-market products and solutions.

GLCM'S SOLUTION FOR AT-THE-DOOR SCREENING

Time is crucial in containing the spread of Covid-19 and the race to develop a tool for rapid testing is critical. GLC Medical (GLCM) Inc. has been working in the background from the very start of this pandemic, using its graphene technology to create a solution that would help bring 'normal' back to businesses, communities and loved ones.

Having a non-intrusive point-of-care diagnostic testing tool on a massive scale that can respond instantly to virus in saliva, will enable more screening and testing so that economies can begin to reopen, and society can gradually return to public venues and social events safely. Organizations of all sizes will be able to ensure with confidence that their employees and clientele are comfortably screened and can return to a safe environment.

GLC Medical (GLCM) Inc. plans to push this extraordinary technology for further development in other medical applications, bringing new health innovation to life.



GLCM'S SARS-CoV-2 Insta-Test

GLC Medical (GLCM) Inc. has developed a world-leading Graphene Rapid Virus Detection Test Kit which can be modified and customized to detect various types of viruses and other pathogens. This simple and user-friendly testing device has been designed specifically to test for SARS-CoV-2, making it the perfect solution for screening at businesses, venues, and institutions across multiple industries.

This test will allow for rapid results in 30-60 seconds, offering the only of its kind saliva test, eliminating the nasopharyngeal swab and practitioner oversight requirements. This is a cost-effective and scalable test kit that uses GLC's functionalized highly sensitive graphene. The dual graphene biosensors are housed in the disposable saliva assembly and respond specifically to SARS-CoV-2 by antibody-protein binding. This binding event changes the electronic characteristics of the graphene surface and sends a measurable signal to the reusable electronics device. Built-in firmware will analyze the signal to detect the presence of SARS-CoV-2 and within 30-60 seconds, a red or green LED light will indicate whether a person is infected or not.

GLCM's point-of-care test kit will offer a unique advantage over other tests, as it is the fastest testing method that specifically detects the presence of COVID-19 proteins. To date, other competitive tests are predominantly nucleic acid tests and serological assay tests, designed to identify either IgM and IgG antibodies present post infection, or identify active infection. These tests also require the use of the nasopharyngeal swab and results must be interpreted by a certified practitioner using expensive lab equipment, which can also be a slow-moving process. Both the serological and the nucleic tests, produce false positive and false negative results, whereas GLC Medical's test kit has been developed to indicate a positive result, only when the virus is present, allowing for clear interpretation by the user.

RAPID RESPONSE TIME

results in just 30-60 seconds

NON-INTRUSIVE METHOD

a saliva oral swab absorbs saliva sample, eliminating the use of a nasopharyngeal swab

COST EFFECTIVE AND SCALEABLE

reusable electronics device and disposable saliva collection vessels

NO PREPARATION

no specialist or lab equipment requirements

"AT-THE-DOOR TECHNOLOGY"

a fast and end-user friendly for screening at large venues

POINT-OF-CARE TESTING

can be used anywhere

TAILORABLE AND CUSTOMIZABLE

to detect other types of viruses and pathogens



Health through Technology

For more information please contact: glcsolutions@glcplus.com www.glcplus.com