



BCSIR Dhaka Laboratories, BCSIR

Name **BCSIR-COVID Kit for COVID-19 Detection**

Area Biological samples

Uses Detection of SARS-CoV-2 virus



BCSIR-COVID Kit is a SARS-CoV-2 virus detection kit and is a first to target the M gene (mutation rate is low). The primer and probe used in this kit has been designed by scientists of BCSIR, making it different and unique from commercially available kits. The specificity, sensitivity and accuracy of this developed kit is comparable to Gold Standard kit and is better than commercial kits. The limit of detection of the developed kit is 100 copies of virus/ml, which is quite low than other kits and so it allows detection at an early stage of SARS-CoV-2 infection. This kit can also detect all variants (Alpha, Beta, Gamma, Delta, Omicron, etc.) of SARS-CoV-2 virus. Lastly, using glycogen during RNA extraction method has led to reduction in cost of COVID-19 testing.

Scale of Development

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Major Raw Material

Primer-probe, PCR Master Mix, Nuclease-Free water

Major Plant Equipment/Machinery

PCR machine, centrifuge machine, spinner.

Details of specific application

Detection of SARS-CoV-2 from nasopharyngeal or oropharyngeal swabs

Status of Development

This process is accepted by the DGDA and approved for production

Ecological/Environmental Impact

This process is environmentally friendly and after commercialization

(if any, specify briefly)

This product is able to fulfill our national demand

Patenting details

Patented filed

Commercialization Status

Techno-Economics

Available on demand

Cost of Production (Tk.)

250.00 Tk/Kit

Keywords

BCSIR-COVID Kit, SARS-CoV-2 virus, nasopharyngeals

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