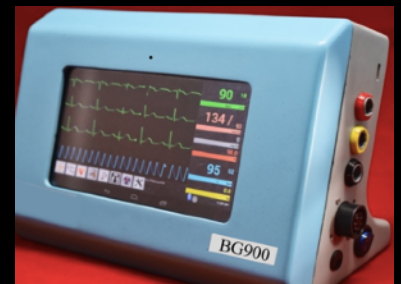




# Novel Coronavirus RT PCR detection kit for BG 1000 Xgene

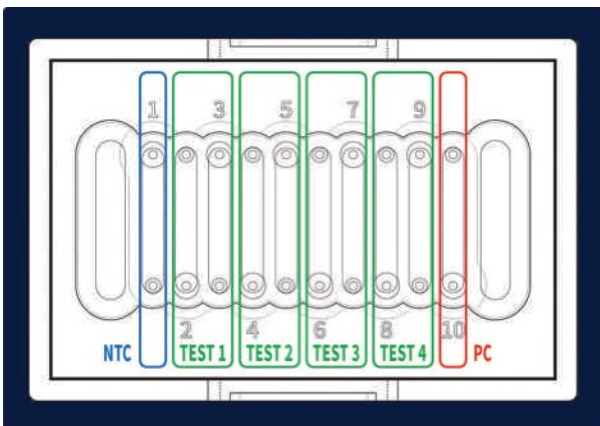
Real-time PCR based using a nasal swab test but at the speed of a fast test.

- 40 minutes of turn-around-time using the Xgene system.
- Detect RdRP and the N gene of SARS-CoV-2 virus.
- Enhanced Telemedicine unit BG 900 for remote Diagnostics.



## Better Detection Assay

The novel coronavirus (SARS-CoV-2) detection kit is based on a biochip sample format, provides relatively short turnaround-time with a simple workflow and offers key benefits of real-time PCR tests. The standard turn-around-time is 40 minutes using the BG-1000 real-time PCR platform.



## Detects Two Target Genes

The novel coronavirus (SARS-CoV-2) detection kit has been developed to detect both the RdRP gene and the N gene of SARS-CoV-2. The primer pairs and probes for the detection of these two target genes and are pre-labeled (dehydrated) in the wells of the test chip so that the user doesn't need to pipette primers and probes to run the test.

## Configuration of Test Chip

The primers and probes for the detection of the N gene of SARS-CoV-2 are labeled in well number 2, 4, 6 and 8 while the primers and probes for the detection of the RdRP gene of SARS-CoV-2 are labeled in well number 3, 5, 7 and 9. Well number 1 is for running no template control and well number 10 is for running positive control. With this configuration, 4 samples can be tested per run. "Each well contains internal positive control



# Novel Coronavirus RT PCR detection kit for BG 1000 Xgene

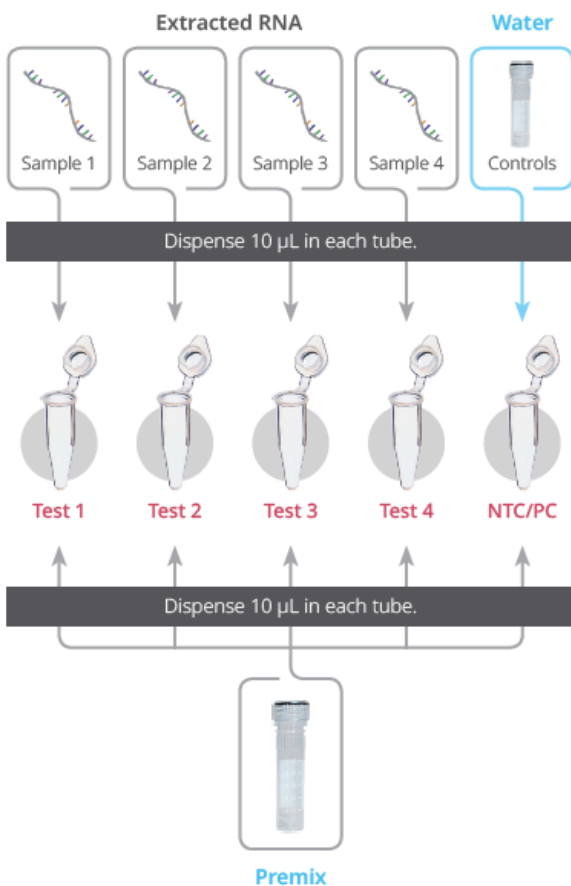
## Ordering and Kit Content Information

Cat. No.	Description	Pack
9799151400	Novel Coronavirus (SARS-CoV-2) Detection Kit	20 tests/PK (5 test chips/PK)
Item	Quantity/Volume	Description
Premix	5 tubes (55 $\mu$ L each)	Includes RTase for one-step RT-PCR
DNA/RNase free water	5 EA	For running controls
Test Chip	5 EA	With labeled primers and probes
Sealing Tapes	5 EA	For sealing the wholes of test chip after loading reaction mixtures
Empty Tubes	25 EA	For preparing reaction mixture

Storage Information: The premix should be stored at  $-20^{\circ}\text{C}$ . Other contents should be stored at room temperature.

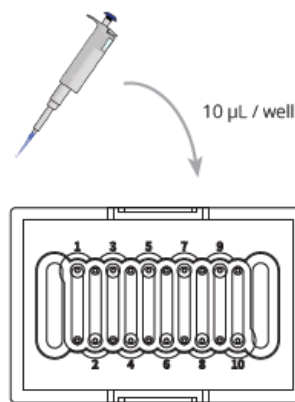
### Step 1.

#### Preparing Reaction Mixture



### Step 2.

#### Sample Loading Into Test Chip

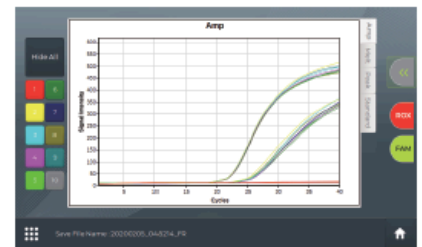


Prepared mixtures are loaded in each well of the chip where primer pairs and probes are pre-labeled. The mixture in a tube is dispensed in two wells of test chip corresponding to N gene and RdRP gene of SARS-CoV-2 respectively. Well number 1 is for no template control and well number 10 is for positive control where the mixture of DNA/RNase free water and premix is loaded.

### Step 3.

#### PCR and analysis

#### Xgene Rapid PCR machine



40 min.