

Covid-19 RT-PCR Detection Kit

MD-COVID19-01

Description

The HibriGen COVID-19 RT-PCR Kit is used for the qualitative detection of the SARS-CoV-2 (2019-nCoV) virus by RNA obtained from human nasopharyngeal aspirate / lavage, bronchoalveolar lavage, nasopharyngeal swab, oropharyngeal swab, and sputum samples.

The method of operation of the kit is the single-step RT-PCR (real-time fluorescent PCR) technology, which collects the cDNA mapping (Reverse Transcription) from the RNA of the SARS-CoV-2 (2019-nCoV) virus and the real-time amplification (RT-PCR) of the cDNA in one step.

Primers and probes included in the HibriGen COVID-19 RT-PCR Kit are specific to sequences of the protected RdRp gene (FAM), N gene (Hex) and Human RPII gene for reaction internal control (Cy5) as target sites. It has been designed in accordance with RT-PCR technology from a single step.



Kit Contents

	50 Test	100 Test	200 Test	500 Test	1000 Test	2000 Test
2X One Step RT-PCR Mix	1x500 ul	1x1 ml	2x1 ml	5x1 ml	10x1 ml	20x1 ml
5X Primer Probe Mix	1x200 ul	1x400 ul	1x800 ul	2x1 ml	4x1 ml	8x1 ml

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Storage

HibriGen COVID-19 RT-PCR Kit, store at -20°C.

For 20 µl total reaction volume;

Content	Amount	Final Concentration
2X One Step RT-PCR Mix	10 ul	1X
5X Primer Probe Mix	4 ul	1X
Sample	6 ul	

1- The prepared RT-PCR sample is gently mixed and centrifuged briefly to collect the remaining drops on the walls of the tube completely to the bottom of the tube.

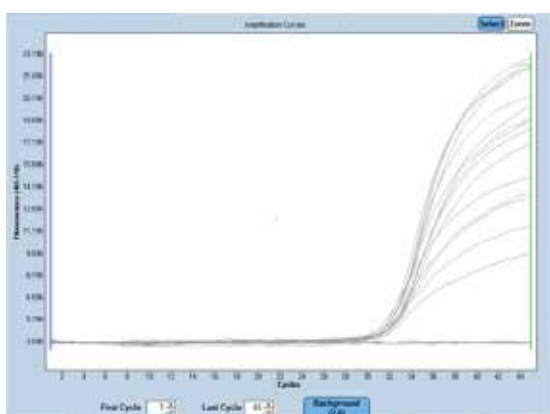
2- In PCR application, apply the following thermal cycle conditions.

Number of Cycle	Temperature	Duration
1	55°C	15 Min
1	95°C	1 Min
45	94°C	5 Sec
	60°C	20 Sec
	FAM/HEX/Cy5 reading	

Evaluation of Results

FAM	HEX	CY5	Interpretation
+	+	+	Positive
-	-	+	Negative
+	+	-	Unefficient RNA isolation / Positive
-	+	+	Positive
+	-	+	Positive
-	-	-	Repeat

HEX



Sensitivity Experiments

