

FY2020

INTRODUCING COVID-19 TEST KIT

MiCo BioMed

C/O PRCC

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Products we supply



PCR Kit



Sample Prep Kit

Veri-Q PREP M16 (G2-16TU)

Veri-Q PREP M16 (G2-16TU)은 membrane이 포함된 tube를 기반으로 하는 핵산 추출 기구입니다.

[제품소개 보기 +](#)



Veri-Q PCR 204 (G2-4)

미코바이오메드에서 개발한 장비로, Plastic Chip을 이용 빠른 시간내에 Real-time PCR 구현이 가능합니다.

[제품소개 보기 +](#)



Veri-Q PCR 316 (QD-P100)

미코바이오메드에서 독자적으로 개발한 장비로, Plastic Chip을 이용하여 빠른 시간내에 Real-time PCR 구현이 가능합니다.

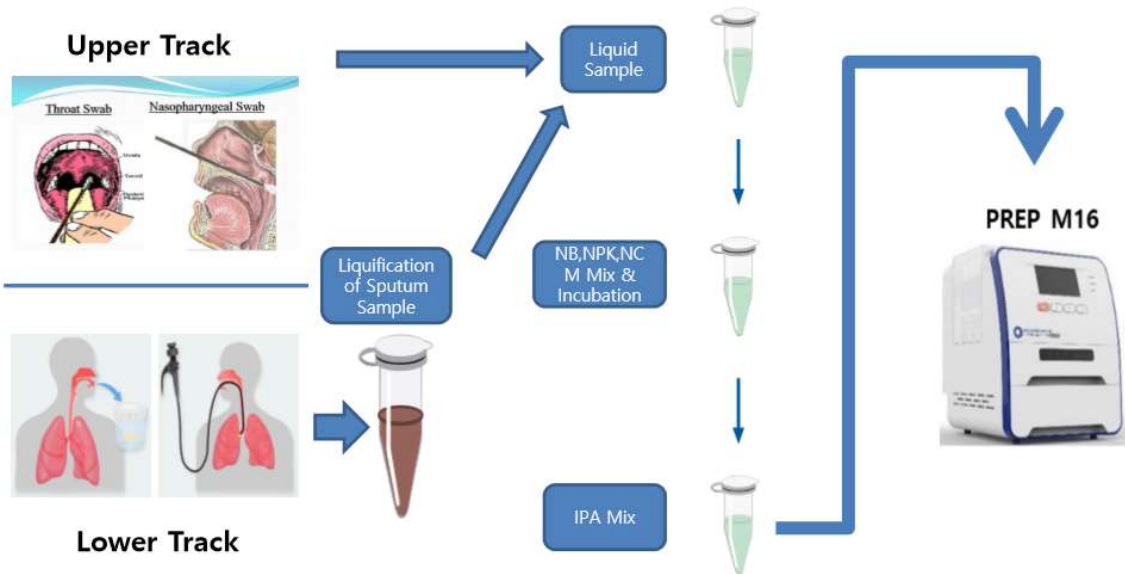
[제품소개 보기 +](#)





RNA Extraction from Samples

COVID-19



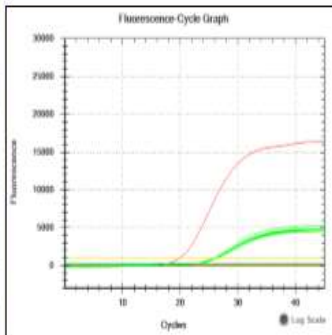
[Determination of Fluorescent dye and Threshold Line]

구성품	Target	Fluorescent dye	Threshold	Cut-off Ct value
nCoV-QS-PPM1	nCoV	FAM	1000	< 40
	IPC	Cy5	1500	< 40
nCoV-QS-PPM2	nCoV	Cy5	1500	< 40
	IPC	HEX	500	< 40

※ Threshold line for Veri-Q PCR 316 machine.

[Results]

Sample	nCoV-QS-PPM1		nCoV-QS-PPM2		Result
	nCoV	IPC	nCoV	IPC	
	FAM	Cy5	Cy5	HEX	
Negative Control	-	+	-	+	Valid
Control	+/-	-	+/-	-	Invalid, re-test
Positive Control	+	+	+	+	Valid
Control	+/-	-	+/-	-	Invalid, re-test
Case 1	-	+	-	+	Negative
Case 2	+	+/-	+	+/-	nCoV
Case 3	+	+/-	-	+/-	Invalid, re-test
Case 4	-	+/-	+	+/-	Invalid, re-test
Case 5	-	-	-	-	Invalid, re-test

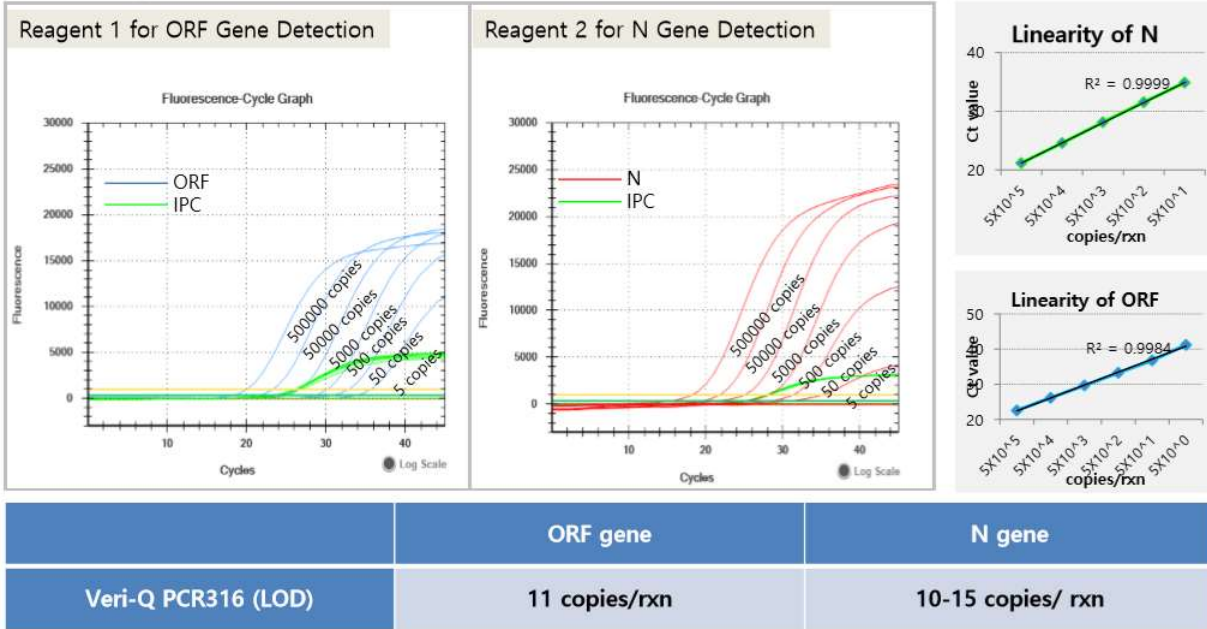


※ IPC may not be reduced or appeared due to higher amplification of other target genes.



Real-time PCR Results

COVID-19



Rapid Sample Prep & Real-time PCR

Molecular Dx

Veri-Q PREP M16



5-35 min for DNA/ RNA extraction

Veri-Q PCR 204/316

25-40 min for RT & 45 cycles of real-time PCR





Rapid Early Detection on Site

COVID-19

On-site



Molecular Diagnosis

1 hr

I. Sample Lysis
(Oral Swab/ Alveolar Lavage Fluid)



5-10 Min



II. Veri-Q PREP M16
DNA Extraction



5-30 Min(1-16 Samples)

III. Loading to LabChip
COVID-19 Detection Kit



5 Min(1-16 samples)



IV. Veri-Q PCR 316
Target Amplification & Result



35-40 Min.

(Portable, Battery Operation)

**7 Patients / One Test
Early Confirmatory Detection**

Real-time Report & Disease Control



Receiving inspection results

Patient



Doctor

Thank You !