

# COVID-19

## RealTime RT-PCR Kit



For Research Use Only

Cat no. IP2000



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# IdPath™ COVID-19 Real-Time RT-PCR Kit (Cat no. IP2000)

For *in-vitro* Detection of SARS-CoV-2 Virus RNA (COVID-19)

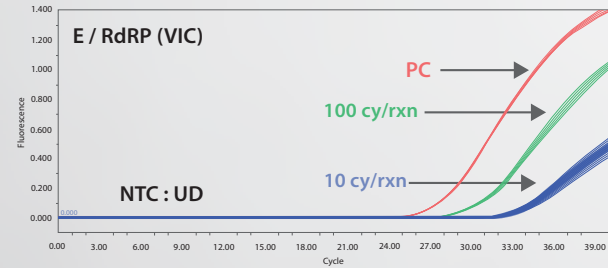
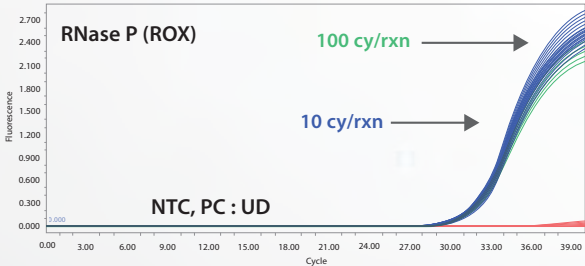
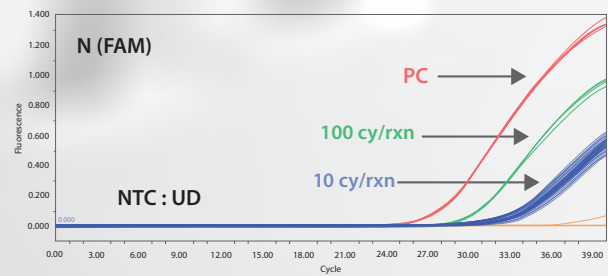
## INTENDED USE

IdPath™ COVID-19 Real-Time RT-PCR Kit is a real-time RT-PCR test intended for the detection of SARS-CoV-2 virus RNA which might be extracted from the respiratory tract specimens. The Kit provides reagents for multiplex real-time RT-PCR to detect SARS-CoV-2 by one-step reaction, specifically targeting the E (Envelope), RdRP (RNA-dependent RNA polymerase) and N (Nucleocapsid protein) gene for SARS-CoV-2 virus.

The Kit contains the RT enzyme mix and qPCR master mix for reverse transcription and real-time PCR of virus RNA. The COVID-19 Control (positive control) and ddWater (negative control) are used as indicators to avoid false negative/positive results across all experimental procedures. The Primers/probes Mix contains multiplex primers and TaqMan probes specific to the N, E/RdRP genes of SARS-CoV-2 and RNase P gene of human, detected by FAM, VIC and ROX channels, respectively.

## FEATURES

- **High Sensitivity** : 5×10<sup>2</sup> copies/ml (10 copies/rxn)
- **High Inclusivity** : >99% of currently available complete virus genomes for SARS-CoV-2 including Omicron variant
- **High Accuracy** : Clinical validation with 100% accuracy
- **High Compatibility** : Suitable for most laboratory qPCR machines
- **Operation Control** : Including internal control for quality control of total process
- **Convenience** : Multiplex (E/RdRP and N) detection by one-step reaction



UD: Undetectable  
NTC: Negative control (ddWater)  
PC: Positive control for the E/RdRP and N genes



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## PRODUCT INFORMATION

Product Information	
Intended Use	Detection of SARS-CoV-2 virus RNA (COVID-19)
Test Principle	One-step real-time RT-PCR (TaqMan®-based detection)
Target Gene	N, E and RdRP genes of SARS-CoV-2
Number of Tests	100T / Kit
Maximum no. of Measurements (96well plate)	94
Limit of Detection (LoD)	500 copies/ml (10 copies/rxn)
Compatible PCR machines	6 (Bio-Rad CFX96, ABI 7500, ABI StepOnePlus, QiagenRoter-gene Q 5plex HRM, Roche LC480, Roche LC96)
Specimen Type	Respiratory tract specimens
Sample Volume	5 µl (Extracted RNA)
Turnaround Time	~60 min
Kit Storage	-20°C, avoid repeated freezing and thawing of kit contents

## REAGENTS SUPPLIED

Each kit provides reagents sufficient for performing 100 tests and consists of the following:

Component	Cap Label (color)	Amount	Storage
One-Step RT Enzyme Mix	E (Red)	200 µl	-20°C
2X One-Step qPCR Master Mix	B (Green)	1 ml	-20°C
Primers/probes Mix	A (Amber tube)	200 µl	-20°C
COVID 19 Control	PC (Blue)	30 µl	-20°C
ddWater	NC (White)	1 ml	-20°C

## ORDERING INFORMATION

Catalog No.	Description	Package
IP2000	IdPath™ COVID-19 Real-Time RT-PCR Kit (Cat no. IP2000)	100 tests