

Supplementary Material:

Table S1. Nucleic acid extraction kits mostly used in the study.

Nucleic acid extraction kit	Manufacturer	Utilization	Technology
QIAamp® Viral RNA Mini Kit	Qiagen, Germany	Manual	Spin columns
AccuPrep® Viral RNA Extraction Kit	Bioneer, Korea	Manual	Spin columns
MagMAX™ Viral/Pathogen II (MVP II) Nucleic Acid Isolation Kit	Thermo Fisher Scientific, USA	Automated	Magnetic beads
ID Gene™ Mag Virus Extraction Kit	ID-Solutions, France	Automated	Magnetic beads

Table S2. COVID-19 RT-PCR kits mostly used in the study.

COVID-19 RT-PCR Kit	Manufacturer	Gene Targets
TaqPath™ COVID-19 CE-IVD RT-PCR Kit	Thermo Fisher Scientific, USA	<i>S</i> gene <i>N</i> gene <i>ORF1ab</i> gene
Maccura SARS-CoV-2 Nucleic Acid Detection Kit	Maccura Biotechnology, China	<i>E</i> gene <i>N</i> gene <i>ORF1ab</i> gene
GeneFinder™ COVID-19 Plus RealAmp Kit	GeneFinder; Infopia Inc., Anyang, Korea	<i>E</i> gene <i>N</i> gene <i>RdRp</i> gene

Table S3. Results interpretation.

SARS-CoV-2 <i>ORF1ab</i>	SARS-CoV-2 <i>N</i>	SARS-CoV-2 <i>S</i>	Result
Negative	Negative	Negative	SARS-CoV-2 not detected
	Only one SARS-CoV-2 target positive		SARS-CoV-2 inconclusive
	Two or more SARS-CoV-2 targets positive		SARS-CoV-2 positive