

Complete solution for COVID-19 response

New standard for COVID-19 testing
to overcome the SARS-CoV-2 virus

Seegene's COVID-19 Solution

Accurate and high-quality testing of COVID-19 is essential to reduce the spread of SARS-CoV-2 and make informed decisions for optimized patient care. Seegene is striving to continuously develop and support effective ways in response to the ongoing COVID-19 pandemic and the overlapping flu season.



Seegene COVID-19 solution		Allplex™ SARS-CoV-2/FluA/FluB/RSV Assay	Allplex™ SARS-CoV-2 Assay	Allplex™ 2019-nCoV Assay
No. of target genes for SARS-CoV-2		3	4	3
Target pathogen	SARS-CoV-2	✓	✓	✓
	Other respiratory pathogens	Flu A, Flu B, RSV A/B		
High-throughput automated platform		✓	✓	✓
Complementation of genetic variations		✓	✓	✓
Whole process control		✓	✓	✓
Extraction-free PCR		✓	✓	
Syndromic test		✓	✓	
Analytes		<ul style="list-style-type: none"> - N gene - S gene - RdRP gene - Influenza A - Influenza B - RSV A/B - Exogenous internal control - Endogenous internal control 	<ul style="list-style-type: none"> - N gene - S gene - RdRP gene - E gene - Internal Control 	<ul style="list-style-type: none"> - N gene - RdRP gene - E gene - Internal control
Product selection criteria		<ul style="list-style-type: none"> - For primary screening of COVID-19, Flu and RSV - For testing using self-collected specimen 	<ul style="list-style-type: none"> - For selective syndromic test with other respiratory pathogens - For extraction-free PCR 	<ul style="list-style-type: none"> - FDA EUA - Validated in the field

✓ Combination test with multiplex respiratory essential panel (Allplex™ RV Essential Assay)

Features and benefits

Primary screening for SARS-CoV-2, Flu A/B and RSV

Detection and differentiation of SARS-CoV-2, influenza A, influenza B and RSV at once

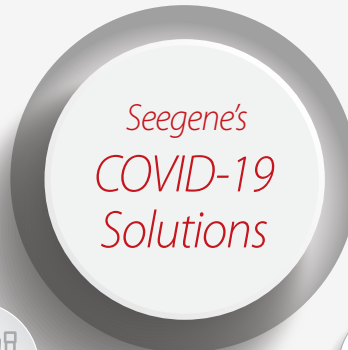


Expandable multiplex PCR syndromic testing

SARS-CoV-2 test alone or combination test with high multiplex respiratory essential panel for other common respiratory viruses

Complementation of genetic variations

Detection of 3 or more target genes to complement genetic variations of SARS-CoV-2



Reliable results

- Entire process verification including extraction and PCR reaction with a whole process control
- Validation of correct sampling for self-collected specimens with an endogenous internal control

Validated for various specimen types

- Nasopharyngeal swab
- Nasopharyngeal aspirate
- Throat swab
- Bronchoalveolar lavage
- Sputum



Flexible workflow

Enable extraction-free PCR to minimize the dependency on extraction reagents and decrease TAT

Seegene's core technologies

With Seegene's proprietary technologies and expertise, enhance your MDx performance

SG-insilico™

Oligo design technology for high multiplex PCR



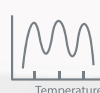
DPO™

Highly specific amplification technology for high multiplex PCR



TOCE™

High multiplex target detection technology



MuDT™

High multiplex target detection & quantification technology



DSP™

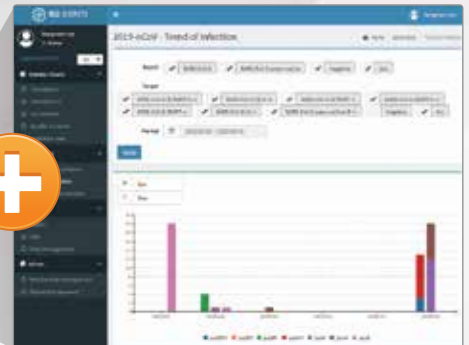
High multiplex signal processing technology



Seegene's All-in-One automated platform



Data Analysis



Extraction & PCR Setup

Seegene STARlet

Real-time PCR

CFX96™ Dx

Automated interpretation

Seegene Viewer

Web-based statistical data analysis platform

SG STATS (overcomm.seegene.com)

Seegene COVID-19 assay targeting multiple genes in one tube shows excellent analytical and clinical performances

Independent SARS-CoV-2 molecular assay evaluation conducted by FIND (1st round)

Company	Product name	Gene target	Verified LOD (copies/reaction)	Avg Ct	Clinical sensitivity (50 positives)	Clinical specificity (100 negatives)
Seegene	Allplex™ 2019-nCoV Assay	E	1-10	33.3	100%	100%
		N	1-10	36.74	100%	100%
		RdRP	1-10	34.73	100%	100%
altona Diagnostics	RealStar® SARS-CoV-2 RT-PCR Kit 1.0	E	1-10	35.45	92%	100%
		S	1-10	35.99	92%	100%
bioMérieux SA	ARGENE® SARS-CoV-2 R-GENE®	N	10-50	36.44	100%	100%
		RdRP	10-50	32.44	96%	100%
Atila BioSystems Inc.	Atila iAMP COVID-19 Detection (isothermal detection)	ORF1ab	50-100	NA	100%	99%
		N	1-10	NA	100%	100%
Sansure Biotech Inc.	Novel Coronavirus (2019-nCoV) Nucleic Acid Diagnostic Kit (PCR-Fluorescence Probing)	ORF1	10-50	35.16	100%	100%
		N	10-50	34.96	100%	95%
SD Biosensor Inc.	STANDARD M nCoV Real-Time Detection Kit	E	1-10	37.43	100%	97%
		ORF1	1-10	36.99	100%	99%
Boditech Med. Inc.	ExAmpliar COVID-19 real-time PCR kit (L)	E	10-50	34.9	100%	100%
		RdRP	50-100	33.46	90%	100%
CerTest Biotech S.L.	VIASURE SARS-CoV-2 Real Time PCR Detection Kit	ORF1ab	10-50	35.16	98%	100%
		N	1-10	35.46	100%	100%
GeneFirst Ltd	The Novel Coronavirus (2019-nCoV) Nucleic Acid Test Kit	ORF1	1-10	35.45	100%	99%
		N	1-10	36.72	98%	100%
KH Medical Co. Ltd	RADI COVID-19 Detection Kit	S	1-10	37.94	100%	100%
		RdRP	10-50	36.74	100%	100%
Bioneer Corporation	AccuPower® SARS-CoV-2 Real-Time RT-PCR Kit	E	10-50	35.85	100%	100%
		RdRP	10-50	36.18	100%	100%
ThermoFisher Scientific	TagPath™ COVID-19 CE-IVD RT-PCR Kit	ORF1ab S N	1-10	NA	100%	100%
EUROIMMUN AG	EUORealTime SARS-CoV-2	ORF1ab/ N	1-10	37.88	100%	98%
Primerdesign Ltd	Coronavirus COVID-19 genesig® Real-Time PCR assay	RdRP	1-10	36.7	100%	100%
R - Biopharm AG	RIDA®GENE SARS-CoV-2 RUO	E	1-10	37.99	100%	100%
Tib Molbiol/ Roche Diagnostics	ModularDx Kit SARS-CoV (COVID19) E-gene (Tib Molbiol) + LightCycler Multiplex RNA Virus Master (Roche)	E	1-10	33.34	100%	100%

INFORMATION FROM WWW.FINDDX.ORG/COVID-19/SARSCOV2-EVAL-MOLECULAR/MOLECULAR-EVAL-RESULTS/

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Ordering Information

Not Available for Sale in the United States

Category	Product	Package Volume	Cat. No.
Allplex™	SARS-CoV-2/FluA/FluB/RSV Assay	50 rxns	RV10260Y
		100 rxns*	RV10259X
Allplex™	SARS-CoV-2 Assay	50 rxns	RV10247Y
		100 rxns*	RV10248X
Allplex™	Allplex™ 2019-nCoV Assay	50 rxns	RP10244Y
		100 rxns*	RP10243X
Instrument	Type	Cat. No.	
CFX96™ Dx	Real-time PCR _ Optical Reaction Module	1845097-IVD	
	Real-time PCR _ Thermal Cycler	1841000-IVD	
Seegene NIMBUS	Automated extraction & PCR Setup	65415-03	
Seegene STARlet	Automated extraction & PCR Setup	67930-03	
SEEPREP32™	Automated extraction	SG71100	
STARMag 96 X 4 Universal Cartridge kit*	Nucleic acids extraction reagent	744300.4UC384	
STARMag 96 X 4 Universal plus Cartridge kit*	Nucleic acids extraction reagent	EX00006C	

* For use with Seegene NIMBUS and Seegene STARlet only, ** For use with SEEPREP32™