

Allplex™ SARS-CoV-2 Variants I Assay

Identification of SARS-CoV-2 variants



RdRP gene

N501Y

HV69/70 deletion

E484K



Move Forward to Defeat SARS-CoV-2 Variants

Allplex™ SARS-CoV-2 Variants I Assay differentiates the new variants and provides insight for proactive response.

Variant designation	VOC-202012/01 501Y.V1	501Y.V2	501Y.V3	484K.V3
Lineage	B.1.1.7	B.1.351	P.1	B.1.525
Spike protein mutations	N501Y, HV69/70 deletion, Y144 deletion, P681H	N501Y, E484K, K417N	N501Y, E484K, K417T	HV69/70 deletion, E484K, F888L
Concern	Increase transmissibility	Increase transmissibility and possibly reduce vaccine efficacy		

Allplex™ SARS-CoV-2 Variants I Assay

Patent
Pening

CE-IVD
Marked



Identification of SARS-CoV-2 variants

- Analytes**
- RdRp gene
 - N501Y in S gene
 - HV69/70 deletion in S gene
 - E484K in S gene
 - Endogenous IC
- Specimens**
- Nasopharyngeal swab
 - Nasopharyngeal aspirate
 - Oropharyngeal swab
 - Bronchoalveolar lavage (BAL)
 - Sputum
 - Saliva



Multiplex real-time PCR

Detects and identifies simultaneously using multiplex real-time PCR



Whole process verification

Verifies whole process including validation of correct sampling with an endogenous internal control



Automated platform

Runs on a streamlined automated platform for high-throughput testing



Individual Ct value

Provides individual Ct value of multiple targets



Reliable test result

Provides reliable test result by minimizing false-negative results

Automated solution for efficient workflow



Automated extraction & PCR setup
Seegene STARlet



Real-time PCR
CFX96™ Dx



Automated interpretation
Seegene Viewer

Data Analysis



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Kick your Real-time PCR up a notch!

With Seegene's core proprietary technology and expertise, enhance your MDx products with incomparable performance and usability.



Oligo Design

Oligo design technology for high multiplex PCR: **SG-Insilico™**

Enables rapid designing of high multiplex oligos using Seegene-developed algorithms and confidential variables



Amplification

Highly specific amplification technology for high multiplex PCR: **DPO™**

Allows the implementation of high multiplex diagnostics with unparalleled specificity using Seegene's unique primer structure



Target Detection

High multiplex target detection technology: **TOCE™**

Achieves accurate target signals by independently controlling multiple target signals for primer and probe annealing temperatures



Quantitative Detection

High multiplex target detection & quantification technology: **MuDT™**

Broadens capacity for high multiplex target detection & quantification by enabling analysis of multiple Ct values in a single detection channel



Interpretation

High multiplex signal processing technology: **DSP™**

Enables accurate reporting of target's positive or negative results through Seegene's proprietary signal processing algorithms

Ordering Information

Product	Volume	Cat. No.
Allplex™ SARS-CoV-2 Variants I Assay	50 rxns	RV10287Y
	100 rxns*	RV10286X

Instrument	Cat. No.
CFX96™ Dx (2 modules)	1845097-IVD & 1841000-IVD
Seegene NIMBUS	65415-03
Seegene STARlet	67930-03
SEEPREP32™	SG71100
Maelstrom™ 9600	M9600
STARMag 96 X 4 Universal Cartridge kit*	7443004LUC384
STARMag 96 X 4 Viral DNA/RNA 200 C kit*	EX00013C
STARMag 96 ProPrep (Plate type)**	EX00009P
STARMag 96 ProPrep (Tube type)**	EX00009T
STARMag 96 ProPrep C (Plate type)**	EX00017P
STARMag 96 ProPrep C (Tube type)**	EX00017T

TANBEAD™ Nucleic Acid Extraction kit***	
OptiPure Viral Auto Tube	W665566
OptiPure Viral Bulk Plate	W665A10
SGRespi™ Pure (Plate type)***	EX00023P
SGRespi™ Pure (Plate type)***	EX00024P
SGRespi™ Pure (Tube type)***	EX00025T

* For use with Seegene NIMBUS and Seegene STARlet only,

** For use with SEEPREP32™, *** For use with Maelstrom™ 9600

Not Available for Sale in the United States