



COVID-19, Extraction-free PCR

Fast, cost-effective and reliable test for COVID-19

Due to its high sensitivity and specificity, real-time PCR is widely used for diagnosis of infectious diseases. However, RNA extraction step of RT-PCR requires considerable manual work, causing a process bottleneck at points of pandemic.

The Seegene extraction-free application for Allplex™ SARS-CoV-2 Assay and Allplex™ SARS-CoV-2/FluA/FluB/RSV Assay improves overall process efficiency, allowing more tests for a limited time.



Time Saving

Results within 2 hours without RNA extraction



Cost Saving

Saving resources such as reagents and costs



Performance Saving

Extraction-free COVID-19 test shows sensitivity of more than 90% and specificity of 100% compared to standard procedure

Specimen

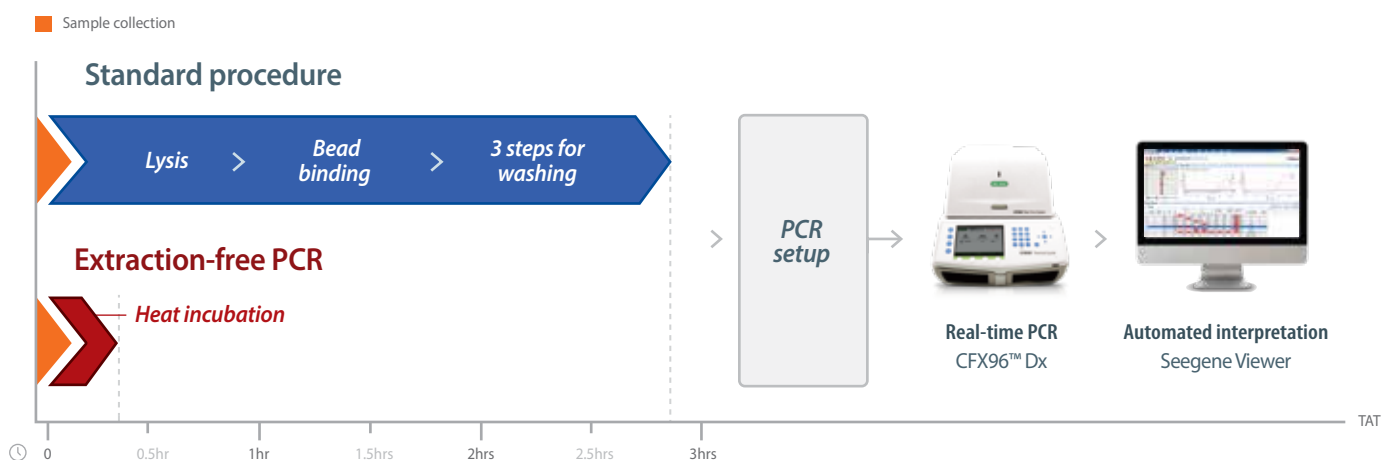
- Nasopharyngeal swab
- Throat swab

Instrument

- CFX96™ Dx
- Applied Biosystems 7500

Streamlined Workflow – simplifies the testing process

Comparison of extraction-free PCR and standard procedure

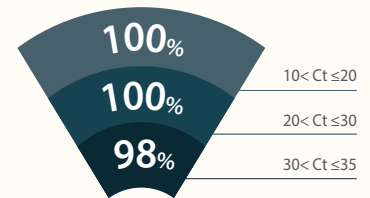


Reliable Result – features comparable performance with standard procedure

Performance comparison of Allplex™ SARS-CoV-2 Assay using extraction-free PCR and standard procedure

Allplex™ SARS-CoV-2 Assay		10 < Ct ≤ 20		20 < Ct ≤ 30		30 < Ct ≤ 35	
		Positive	Negative	Positive	Negative	Positive	Negative
Extraction-free PCR	Positive	8	0	32	0	38	0
	Negative	0	33	0	33	1	33
Negative Percent Agreement		100%		100%		100%	
Positive Percent Agreement		100%		100%		97.44%	
Overall Percent Agreement		100%		100%		98.61%	

100%
Agreement

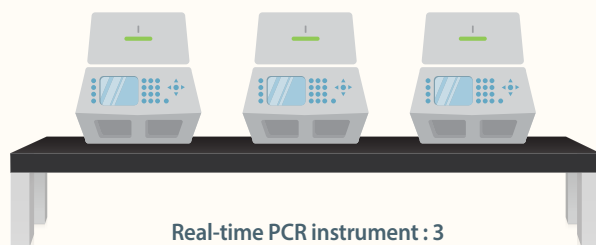


Sensitivity

Enhanced Testing Capacity – enables more samples in same space

Extraction-free PCR

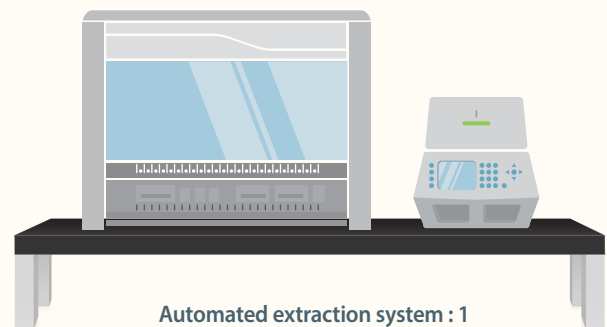
Test up to **2,880** samples in 24 hours **x4**



Real-time PCR instrument : 3

Standard procedure

Test up to **768** samples in 24 hours



Automated extraction system : 1
Real-time PCR instrument : 1



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Ordering Information

Product	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

* For use with Seegene NIMBUS and Seegene STARlet only