Gene Pro SARS-CoV-2 Test



Emergency Use Authorization (EUA)



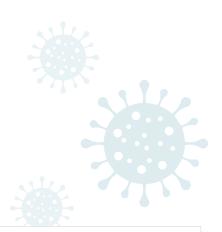
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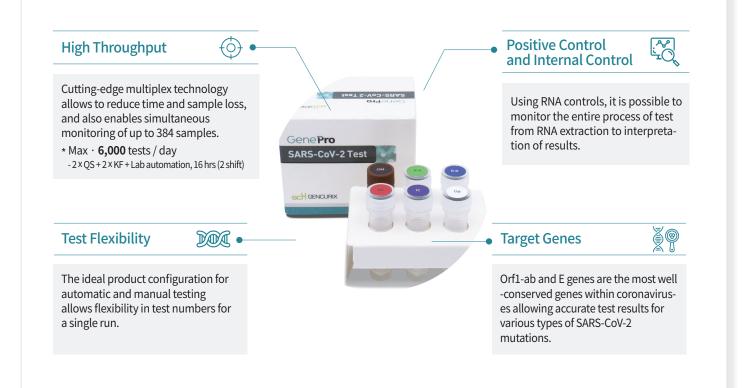
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Gene**Pro** SARS-CoV-2 Test

GenePro SARS-CoV-2 Test kit is developed to enable high throughput analysis and flexibility in test numbers for a single run. It allows qualitative detection of Orf1-ab gene / E gene simultaneously. Orf1-ab gene has specific sequence from SARS-CoV-2 and E gene is common sequence within coronaviruses. The validity of RT-PCR reaction is confirmed by using RNA templete (SARS-CoV-2) as positive control.

- I Target gene
 • Orf1-ab gene : RNA-dependent RNA polymerase gene
 - \cdot E gene : envelope protein gene
- I Performance Sensitivity : 77 genome copy equivalents / rxn
- I Running Time < 1.5 hrs after RNA extraction
- I PCR Instruments QuantStudio Dx (96 or 384 samples) / CFX96 (96 samples)
- Reporting
 SARS-CoV-2 Positive
 Presumptive SARS-CoV-2 Positive
 - · SARS-CoV-2 Not Detected
 - Invalid





How to Use : Amplification and Detection (QuantStudio Dx, CFX96)

01 Specimen Collection		nasopharynge imen into the											
02 Sample	• Nucleic acids are isolated and purified from specimens manually or automatically using following viral RNA isolation reagents and instruments, according to the manufacturer's instruction.												
Preparation	Protocol Reage								Instrument				
reparation				X Viral/Pathogen Nucleic Acid Isolation Kit						KingFisher Flex System (96 samples)			
	QIAGEN Au	OIAGEN Auto			o Viral RNA Mini Kit o DSP Viral RNA Mini Kit					QIAcube Connect (12 samples)			
	QIAGEN Ma	nual QIAamp							_				
03	· GenePro SA	RS-CoV-2 Test	t is de	signed	to use wit	:h Quant	:Stı	udio D:	c and CFXS	96 PCR Syst	ems.		
Genetic	RT-PCR Re	RT-PCR Reaction				- I	Ρl	late De	sign (384-	well Plate N	lap)		
Assay	Com	Component		Volume per reaction					2	3			
	Oligo	Mix		1μL			А	NC OM		L5 Sample 31			
	Reaction Mix A		2.5 μL			-			Sample	L6 Sample 32			
	Reaction Mix B		1μL			_	В		OM	OM			
	Template RNA		5.5 μL				С	Sample	el .	•			
	Total			10 µL		-	D	Sample	• 2	•			
04 Data Analysis and	· Interpretate Orf-1ab Positive	e the results ac E Positive or Neg		ing to Ct values (< IC Positive or Negativ		St	.). Status valid		Result SARS-CoV-2 Positive				
Interpretation	Negative	Positive	Positive P		or Negativ	ve v	valid		Presumptive SARS-CoV-2 Positive ⁺				
	Negative	Negative		Positive		v	valid		SARS-CoV-2 Not Detected				
	Negative	Negative		Negative		In	Invalid		Invalid*				
	 * Repeat test. If the repeat test also results invalid, collect a new specimen. * Repeat test. If same results are detected from the repeat test, additional confirmatory testing may be conducted, if it is necessary to differentiate between SARS-CoV-2 and human SARS virus or other Sarbecovirus currently unknown to infect humans, for epidemiological purposes or clinical management. Not detected result for the ORF-1ab gene target may be due to : a sample at concentrations near or below the limit of detection of the test, a mutation in the corresponding target region, or other factors. 												
05	Clinical Sensitivity and Specificity												
Clinical Evaluation	Clinical Study (N=100)				Positive	VID-19 pa Negative		Total					
	GenePro SARS-CoV-2 Test			ive Netected	60 0	0 40		60 40					
	Total				60	40		100					
	Sensitivity (95% CI) Specificity (95% CI)				100.0% (94.0% - 100.0%) 100.0% (91.2% - 100.0%)								
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Ordering Inform	ation								Gen	ePro -CoV-2 Test			
Cat no.	Product		S	ize				Gent	Genefi		itne Pro i itne Pro s		
CV002 G	ienePro SARS-Co\	/-2 Test	100 te	ests/kit			Oligo Mix	Reaction Mix A	Reactif Mix B Store at 2	NCURIX	Internal Internal Internal Internal Internal Internal Internal		



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