REAL SARS-COV-2 & REAL SARS-COV-2 PLUS (COVID-19)

Tests for the detection of coronavirus SARS-CoV-2 (COVID-19) by RT real time PCR



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Targets: N gene + E gene + orf1ab gene

No RNA extraction needed!





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REAL SARS-COV-2 & REAL SARS-COV-2 PLUS (COVID-19)

Tests for the detection of N gene, E gene and orf1ab gene from coronavirus SARS-CoV-2 by RT-PCR real time (COVID-19)

A new severe respiratory syndrome caused by a coronavirus was first observed in Wuhan (China) in December 2019. The infection has spread all over the world, and consequently, on March 2020, the disease was declared a pandemic by the WHO. The new virus was called SARS-CoV-2, causing COVID-19 disease.

Most infected people with SARS-CoV-2 will develop mild to moderate symptoms, as fever, tiedness or dry cough, but it can cause severe illness, and even death, especially in people rith previous conditions and in elderly people. These symptoms may appear 2-14 days after exposure to the virus.

Detection of the RNA of the virus by techniques as RT-PCR real time is important in early infections to isolate infected people and contain the outbreak. As a result, several testing protocols and target genes for molecular diagnosis of SARS-CoV-2 infection have been issued from Health Authorities, as China CDC, Charité – Germany, or US CD^{1,2*}.

On the other hand, it is important to obtain quick results, so the use of short execution tests, that do not require the nucleic acid extraction step is of prior importance.

The Real SARS-CoV-2 and the Real SARS-CoV-2 Plus tests are kits for the easy and sensitive detection of SARS-CoV-2 by RT-PCR real time, with protocols available that do not require nucleic acids extraction.

¹ World Health Organization, https://www.who.int/docs/default-source/coronaviruse/protocol-v2-1.pdf, last accessed January 17, 2020 ² Laboratory testing for coronavirus disease 2019 (COVID-19) in suspected human cases. Interim guidance 2 March 2020; WHO

Procedure

	RNA sample extraction		RT-PCR real tin		nalysis	
	* The kit includes all the necessary reagents for reverse transcription and real time PCR amplification					
	PRODUCT	Texas/ROX Channel	FAM Channel	Cy5 Channel	HEX/JOE/VIC Channel	
	Real SARS-CoV-2	E gene SARS-CoV	Orf1ab gene SARS-CoV-2	-	Human IC Internal Control	
R	eal SARS-CoV-2 PLUS*	E gene SARS-CoV	Orf1ab gene SARS-CoV-2	N gene SARS-CoV-2	Human IC Internal Control	

NO RNA EXTRACTION NEEDED*

Highlights

ŬĮ.	All the reagents are included, also positive and negative controls.		Many different types of validated samples: naso- pharyngeal, oropharyngeal, nasal and oral swabs, saliva.	
5µl	Protocol without RNA extraction available.	CE	CE IVD marked.	
8	Detection of E gene+orflab gene or N gene+E gene+orflab gene: versatility with high sensitivity and specificity.	0	Compatible with several Real Time PCR instruments: CFX96 Real-Time PCR Detection System (BioRad); QuantStudio 5 Real-Time PCR System (Applied	
	Endogenous internal control included for confirmation of RNA retrotranscription, extraction and amplification.		Biosystems); Gentier 96 Real-Time PCR (Tianlong) and Gentier 48 E Real-Time PCR (Tianlong).	
Ē	Short execution time.	\odot	Not affected by the mutations in the new variants.	
12	12 months shelf life.	**	2-8°C transport, -20°C storage.	