TOGETHER AGAINST COVID-19

ASTRA BIOTECH

In its over than 10 years history Astra Biotech GmbH, based in Berlin, Germany, has been providing its customers with wide range of high quality reagents and solutions for research and diagnostics, based on molecular biology methods, such as real-time PCR and microarray.

Our company strives to provide the best value of reagents to the research and IVD community. All our diagnostic assays are CE-certified and subject to strict ISO conform quality control for preserving the good practice of our clients and well-being of their patients.

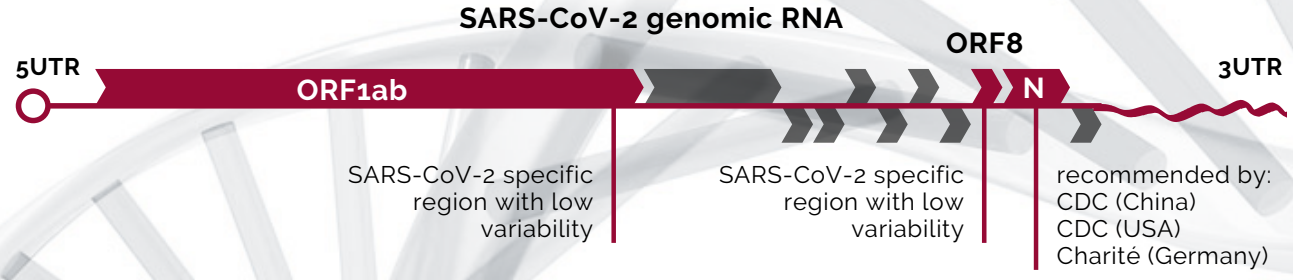
Our comprehensive response to the COVID-19 challenge represents a complete and economical solution for simple and accurate detection of SARS-CoV-2 infection.

SARS-COV-2 TRIPLEX PCR KIT

REF 89-03 (Form F) CE

The **SARS-CoV-2 Triplex PCR kit** is a one-step multiplex real-time RT-PCR test intended for the qualitative detection of nucleic acid from SARS-CoV-2 (2019-nCoV) obtained from nasopharyngeal and oropharyngeal swabs and saliva specimens from individuals suspected of COVID-19.

The test detects SARS-CoV-2 using specific sets of primers and fluorescent probes for three coding regions of virus proteins **ORF1ab**, **ORF8**, and **N**. The detection of 3 regions increases the specificity of the test and makes it stable against potential mutations of the virus.



As internal control of quality of RNA extraction and reverse transcription reaction, the test uses specific set of primers and fluorescent probes for transcript of one of the human “housekeeping genes”.
Positive control reaction uses mix of *in vitro* transcribed RNAs corresponding to the target SARS-CoV-2 genome regions.
The kit is shipped with all reagents in vials that allow to set reaction in most suitable for user formats – individual tubes, tube strips or multiwell plates.
Quantity of reagents is sufficient for 100 reactions, including positive and negative controls.

The kit is validated for use with real-time PCR cyclers BioRad CFX96/CFX96 Touch, Roche LightCycler 96, DNA-Technology DTprime/DTlite, Qiagen RotorGene 3000/6000/Q and Sacace SaCycler 96.
Other makes and models of cyclers can be used after proper validation experiments.

QUANTITY OF TESTS
100 reactions

PROTOCOL TIME
90 min

LIMIT OF DETECTION
1000 copies/mL

COMPOSITION OF KIT

PCR-Mix SC2	(1 x 1020 uL)
Taq-DNAP + RT	(1 x 510 uL)
Positive Control	(1 x powder)
Negative Control	(1 x 1500 uL)

RELATED PRODUCTS
Prime DNA/RNA Extraction kit
Magnetic DNA/RNA Extraction kit

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The **SARS-CoV-2 Triplex PCR kit** has been validated for use with the **Prime DNA/RNA Extraction kit** and **Magnetic DNA/RNA Extraction kit**. The quantity and quality of the nucleic acids obtained are sufficient to perform different types of PCR, including RT-PCR in real time with fluorescent detection.

PRIME DNA/RNA EXTRACTION KIT

REF 80-07 CE

This kit is intended for simultaneous isolation of viral, bacterial and human DNA and RNA from clinical samples, and is based on guanidine thiocyanate lysis followed by alcohol precipitation.

MAGNETIC DNA/RNA EXTRACTION KIT

REF 80-06 CE

This kit is intended for simultaneous isolation of viral, bacterial and human DNA and RNA from clinical samples, and uses sorption on silica coated magnetic beads.

PRODUCT	PRIME EXTRACTION KIT	MAGNETIC EXTRACTION KIT
Sample material	Swabs, saliva, serum or urine	Swabs, saliva, serum or urine
Number of extractions	100	100
Sample volume, uL	100	200
Elution volume, uL	60 - 100	100
NA volume per reaction, uL	5 - 10	5 - 10
Quantity of washings	2	4
Extraction of 24 samples, hrs	<1,0	1,5
Extraction efficiency	>80%	>85%
Storage and shelf-life	+2 ... +25°C, 12 months	+18 ... +25°C, 12 months
Composition of the kit:	Lysis Buffer (1 x 30 mL)	Lysis Buffer (1 x 30 mL)
	Precipitation Solution (1 x 40 mL)	Sorption Solution (1 x 30 mL)
	Wash Solution (2 x 50 mL)	Wash Solution 1 (3 x 50 mL)
	Elution Buffer (1 x 10 mL)	Wash Solution 2 (1 x 50 mL)
	RNase Free Water (1 x 1,5 mL)	Wash Solution 3 (1 x 20 mL)
		Elution Buffer (1 x 10 mL)
		RNase Free Water (1 x 1,5 mL)
		Magnetic Beads (1 x 1,1 mL)

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