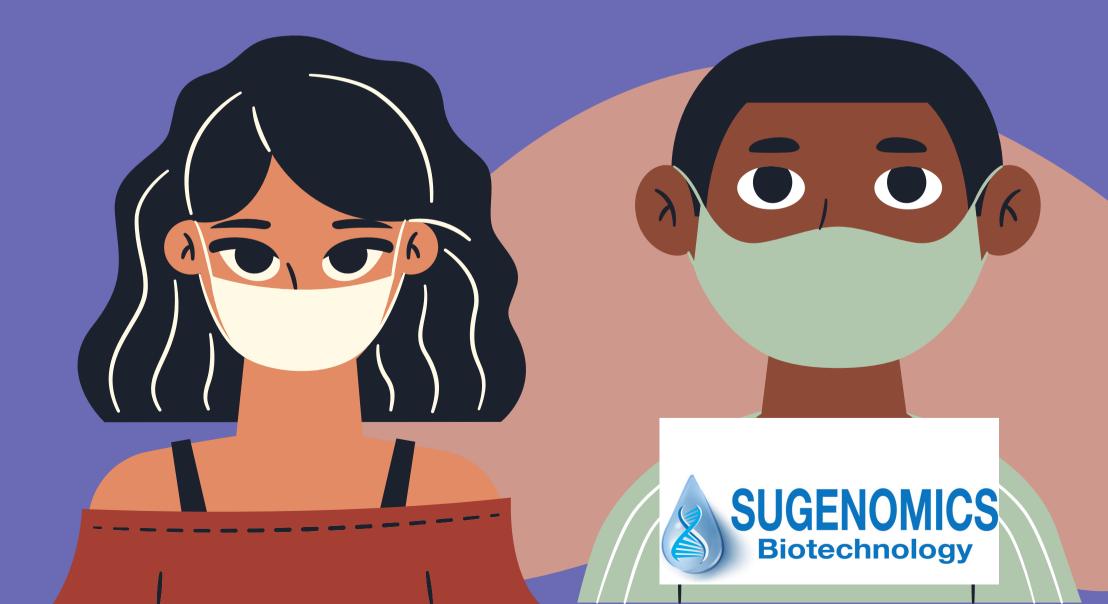
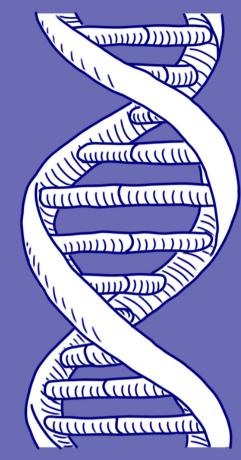


SUGENOMICS COVID **DETECTION KITS** FAST, RELIABLE, ACCURATE AND FLEXIBLE NUCLEIC ACID AMPLIFICATION (NAAT) KITS







THE TRUTH ABOUT COVID DETECTION

WHAT IS COVID TEST? (ACCORDING TO FDA)

	MOLECULAR TEST	ANTIGEN TEST	ANTIBODY TEST
Also known as	Diagnostic test, viral test, molecular test, nucleic acid amplification test (NAAT), RT-PCR test, LAMP test	Diagnostic test	Serological test, serology blood test, serology test
How the sample is taken	Nasopharyngeal (the part of the throat behind the nose), nasal or throat swab (most tests) Saliva (a few tests)	Nasal or nasopharyngeal swab (most tests)	Finger stick or blood draw
How long it takes to get results	Same day (some locations) or up to a week (longer in some locations with many tests)	Some may be very fast (15 – 30 minutes), depending on the test	Same day (many locations) or 1-3 days
Is another test needed	This test is typically highly accurate and usually does not need to be repeated.	Positive results are usually highly accurate, but false positives can happen, especially in areas where very few people have the virus. Negative results may need to be confirmed with a molecular test.	Sometimes a second antibody test is needed for accurate results.
What it shows	Diagnoses active coronavirus infection	Diagnoses active coronavirus infection	Shows if you've been infected by coronavirus in the past
What it can't do	Show if you ever had COVID-19 or were infected with the virus that causes COVID-19 in the past	Antigen tests are more likely to miss an active COVID-19 infection compared to molecular tests. Your health care provider may order a molecular test if your antigen test shows a negative result but you have symptoms of COVID-19.	Diagnose COVID-19 at the time of the test or show that you do not have COVID-19.

SUGENOMICS Biotechnology



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GOLD STANDART IS PCR

This test is typically highly accurate and usually does not need to be repeated





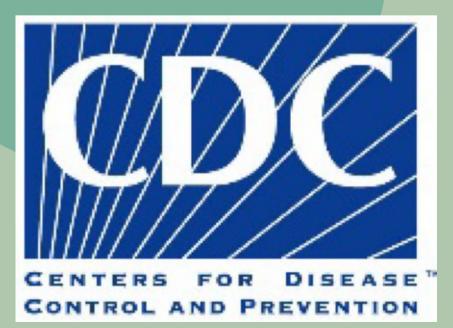


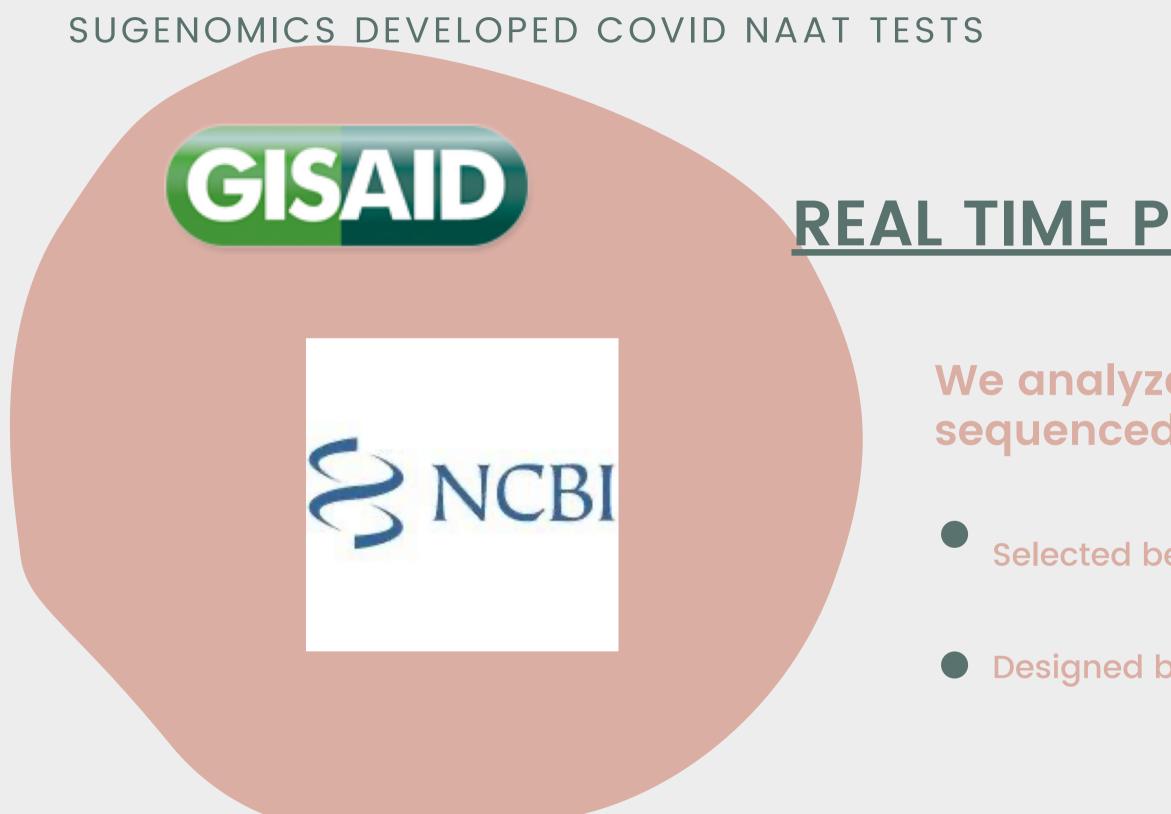
SUGENOMICS COVID TEST SOLUTIONS



European Commission

UGENOMICS Biotechnology







REAL TIME PCR & LAMP KITS

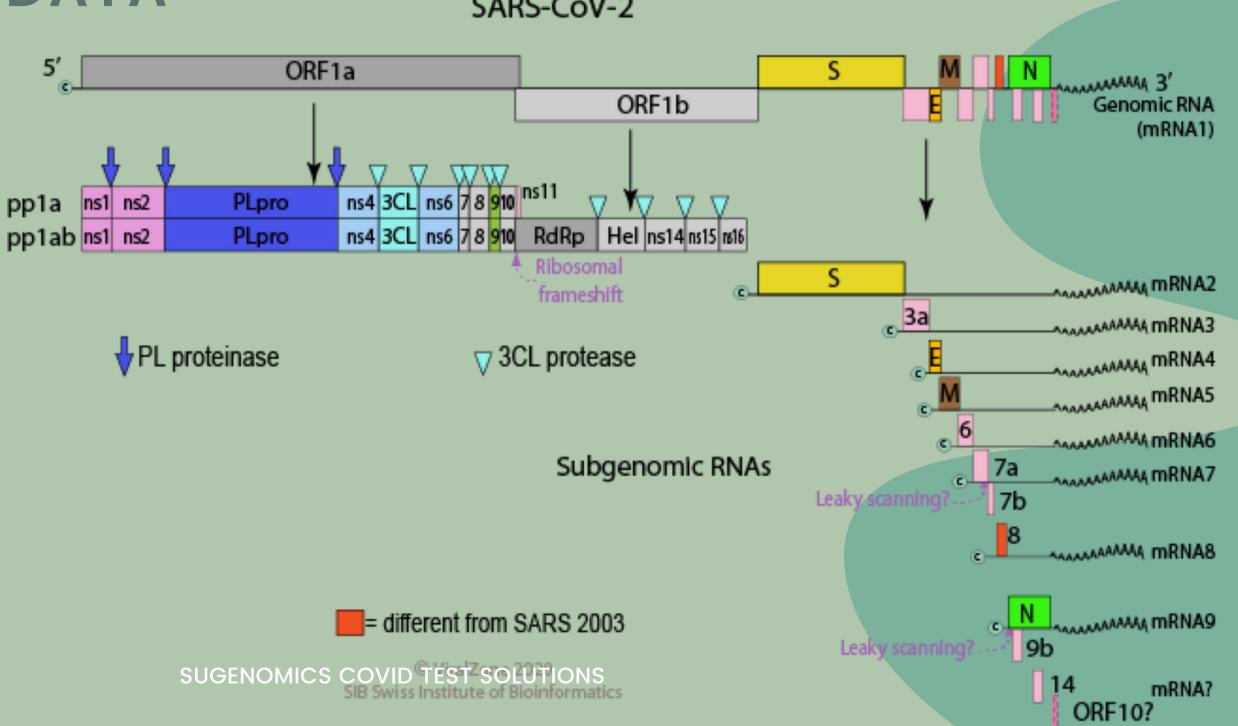
We analyzed thousands of sequenced SARSnCOV Genomes

Selected best regions for reliable detection

Designed best multiplex combinations

SUGENOMICS COVID TEST SOLUTIONS

SUGENOMICS UTILIZES THE GENOMICS **BIG DATA** SARS-CoV-2



PCR KITS

ADVANTAGES

Developed by the bioinformatics analysis of thousands of the high-quality SARS nCoV-19 genomes published in GISAID and NCBI.

Appropriate to Word Health Organization (WHO) and Centers of Disease Control of USA (USA-CDC).

Includes synthetic SARS nCoV-19 RNAs developed and certified by European Union Commission Joint Research Centre (Geel, Belgium) called EURM-19.

SHOWS EXCELLENT CONCORDANCE OF RESULTS IN MULTIPLEX REACTIONS.

Includes an internal human control Ribonuclease P (RNAse P) gene to check RNA isolation and reverse transcription success. Targets RNA-Dependent RNA Polymerase (RdRp) and Nucleocapsid (N) genes specific to SARS nCoV-19.

ADVANTAGES

Formulated to amplify two target genes in a single reaction.

Can scan up to 96 samples in a 96-well plate qPCR machine.

Detects two viral genes in a single tube with short time (<45 minutes).

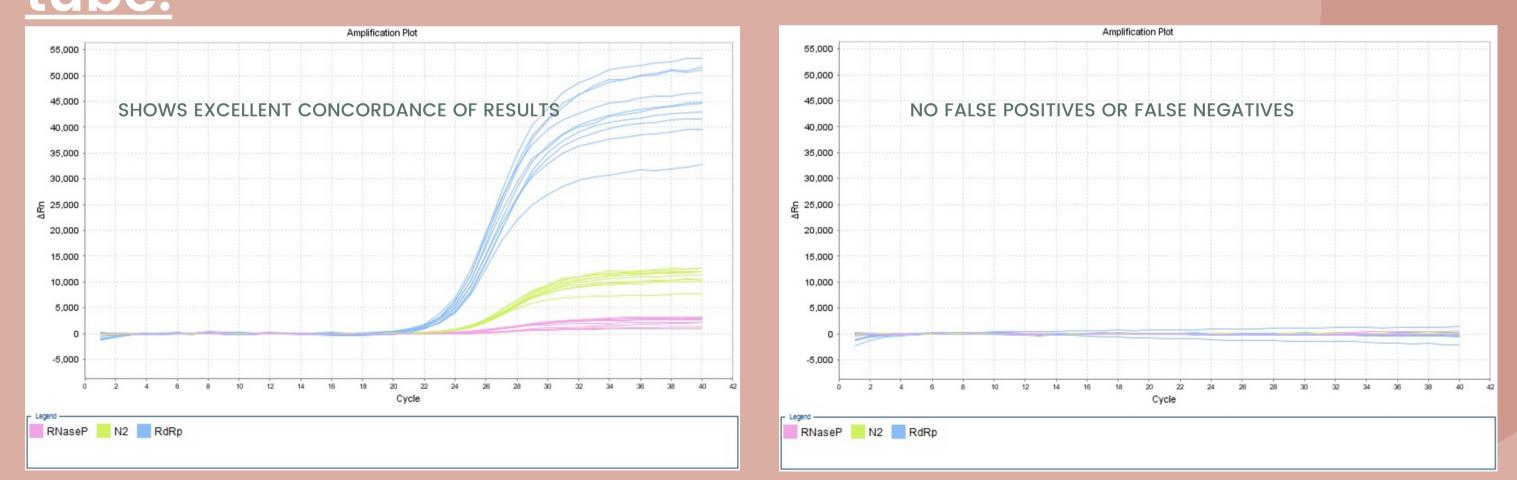
SHOWS EXCELLENT CONCORDANCE OF RESULTS IN MULTIPLEX REACTIONS.

Limit of detection (LoD) is 10 copies/reaction.

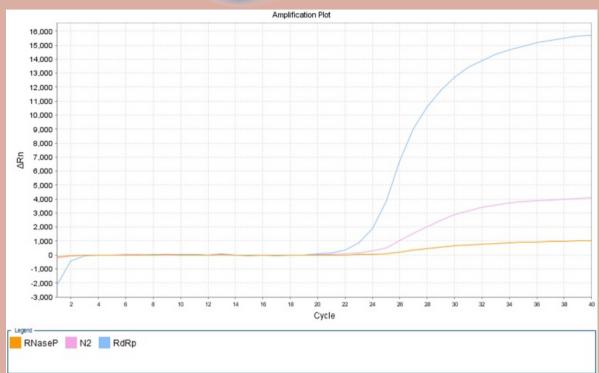
Validated on ABI StepOnePlus system and compatible with standard RT-PCR machines (such as ABI 7000, 7300,7500, Roche 480, MX3000P, MX3005P, Rotorgene TM6000, Icycler IQTM4/5, and Bio-Rad CFX96).

SUGENOMICS PCR COVID DETECTION KIT:

Detects RdRP & N genes in a single tube with multiplex reaction and an internal RNase P gene in separate tube.

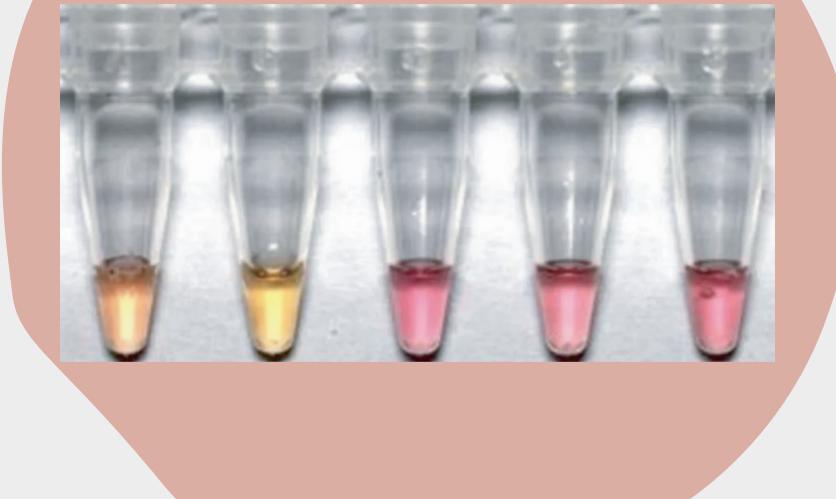






SUGENOMICS LAMP KIT

LAMP also known as RAPID PCR



minutes

Ready to use formulation.



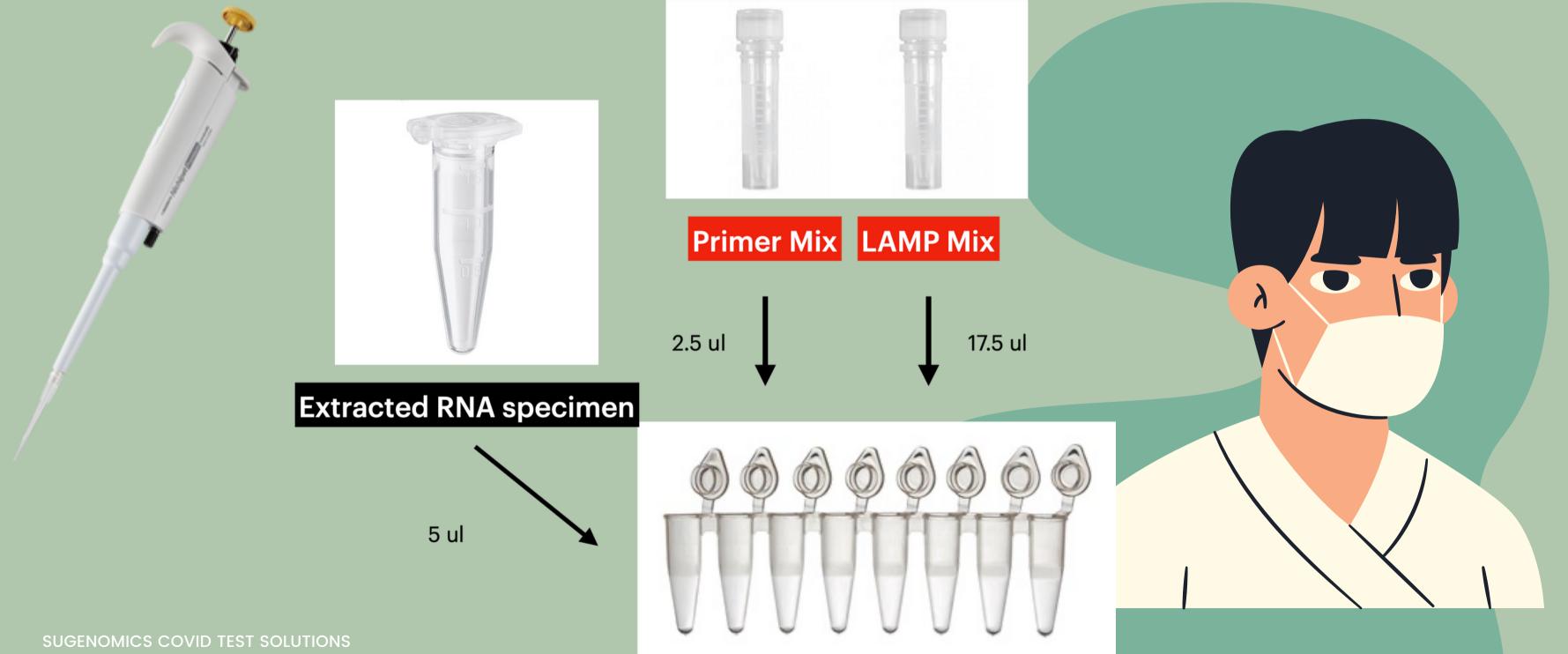
Detects SARS-CoV-2 RNA in 15

Simplified procedure.

SUGENOMICS COVID TEST SOLUTIONS

VIROLAMP

OPERATION OF VIROLAMP KIT





OPERATION OF ORSALAMP KIT

MIX SOLUTION AND THEN SPIN DOWN TUBES.

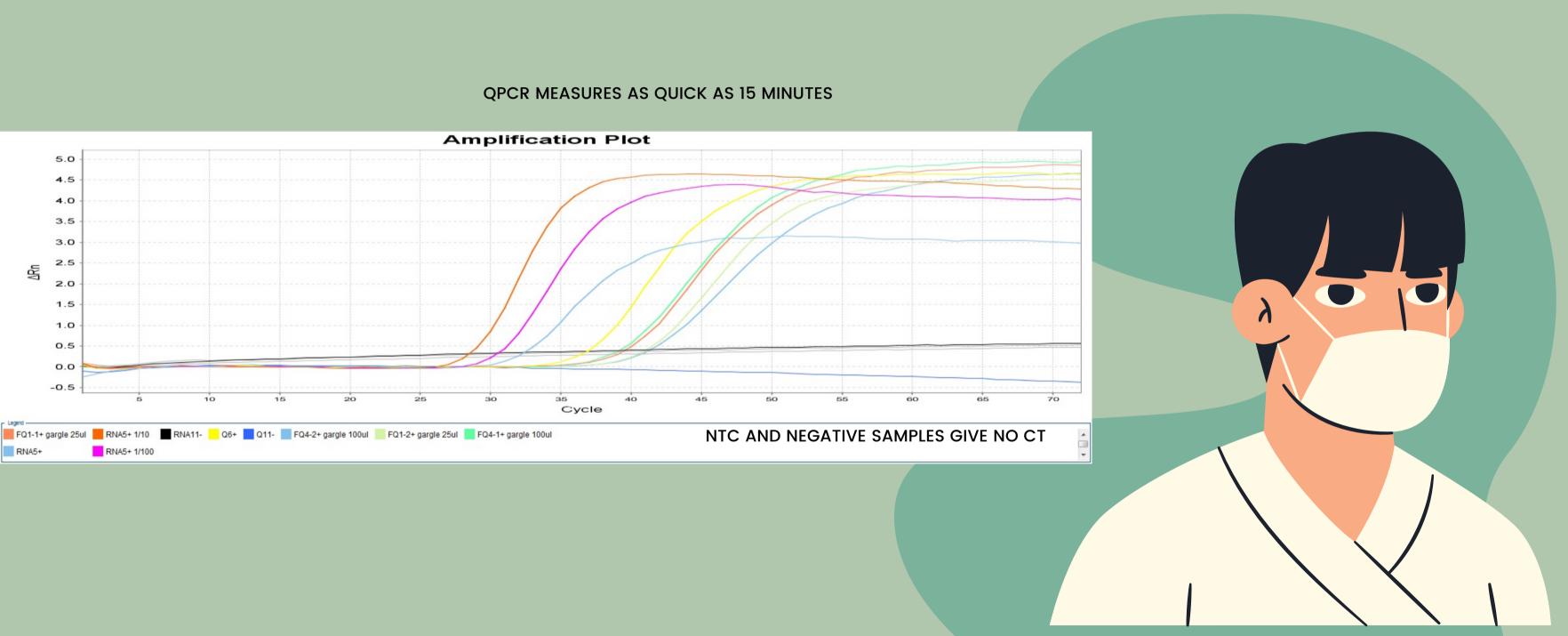
 Setup a Real-Time PCR for detection with this product.
 FAM channel should be used for data collection.
 Load the reaction tubes and incubate them as follows in a

real-time detection



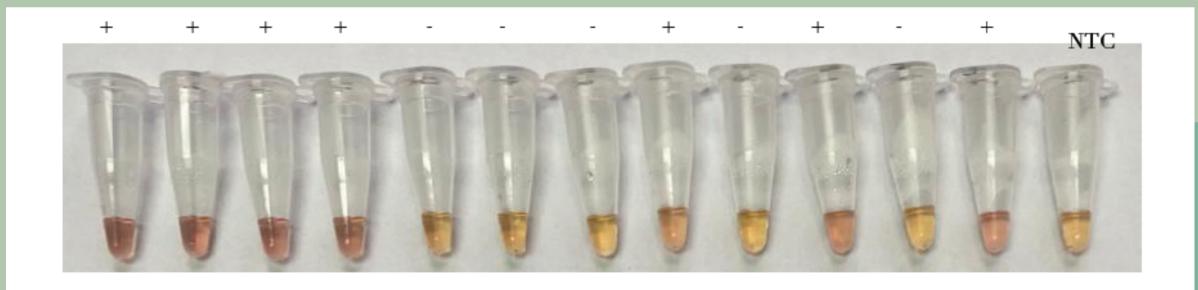
VIROLAMP

OPERATION OF VIROLAMP KIT



OPERATION OF VIROLAMP KIT

WAIT 35 MINUTES AT 70 °C. DETECT BY NAKED EYE. PINK IS POSITIVE. YELLOW IS NEGATIVE.



SUGENOMICS COVID TEST SOLUTIONS

SET THE REACTION TUBES INTO A HEAT BLOCK OR AN INCUBATOR



SUGENOMICS OFFERS FLEXIBLE SOLUTIONS

SUGENOMICS TEST SCHEMA 1-SAMPLE COLLECTION 2-RNA EXTRACTION 3-PCR OR LAMP TEST

SUGENOMICS COVID TEST SOLUTIONS

Fast COVID-19 Test Schema: Everything You Need to Follow



Sampling: Just 1 minute gargling with PainlessGargleSolution





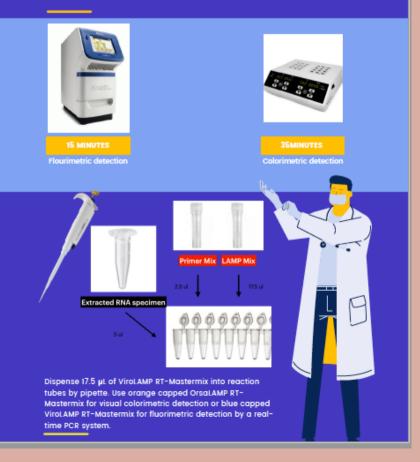
RNA extraction



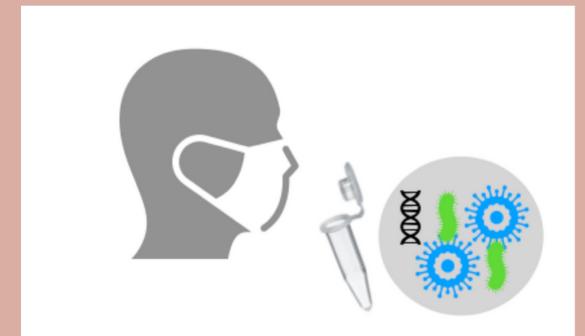
20 µl Gargle solution is used with 20 µl ViroQuick solution incubated with 95 Celcius for 5 minutes

Isothermal COVID PCR Detection

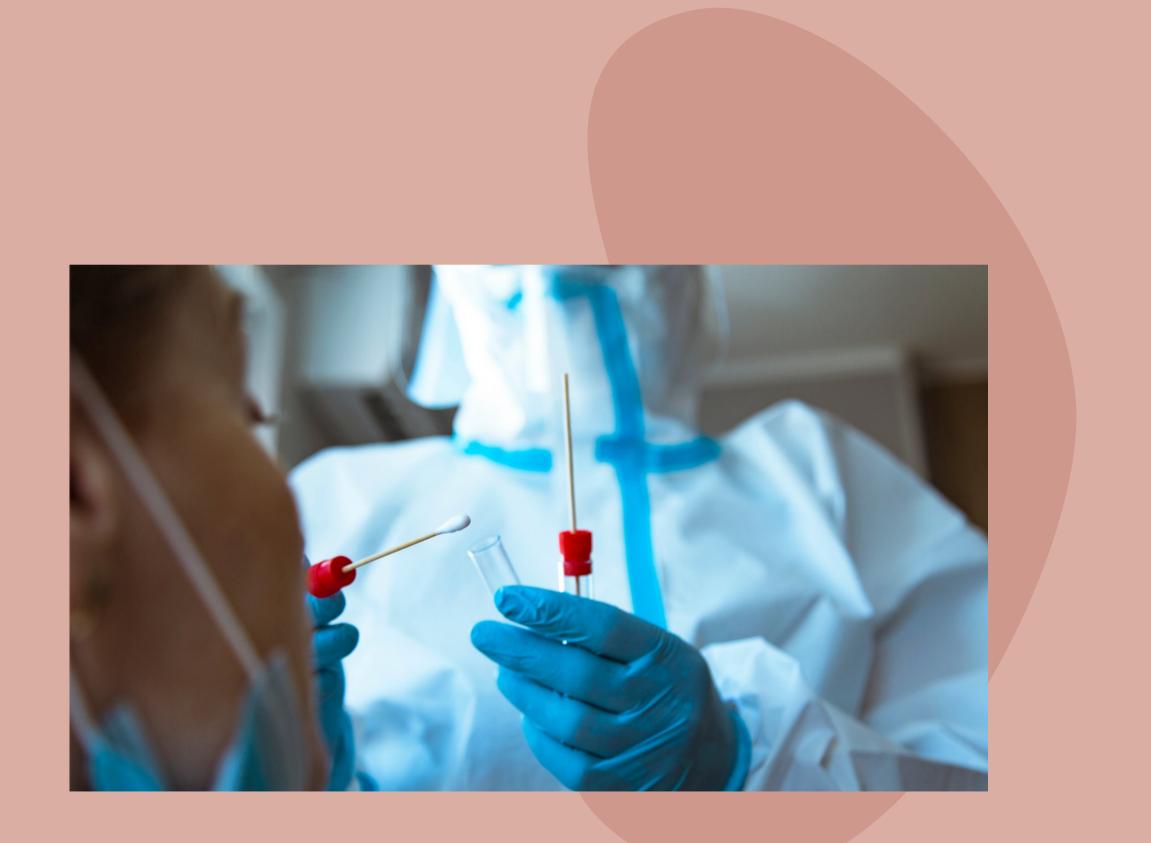
It is possible to detect the Sars nCOV virus in minutes. The ViroLAMP COVID Detection kit allows to detect both colorimetric and flourimetric manner.



SAMPLE COLLECTION



For the validation of COVID positive samples, the RNA extraction will be followed according to CDC procedure



SUGENOMICS COVID TEST SOLUTIONS

SAMPLE COLLECTION

SUGENOMICS OFFERS OPTIONAL PAINLESS GARGLE SOLUTION

ALLOWS MOUTH WASH SAMPLING

NO PAIN NOT REQUIRED HEALTH PROFESSIONALS I MINUTE GARGLING EASY TO USE AND TRANSPORT

SUGENOMICS COVID TEST SOLUTIONS



Fast COVID-19 Test Schema: Everything You Need to Follow

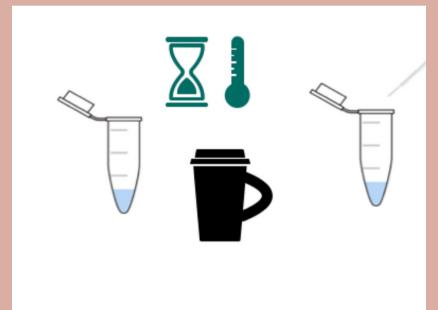




Sampling: Just 1 minute gargling with PainlessGargleSolution



RNA EXTRACTION



RNA extraction process includes isolation kits or extraction process for 5-30 minutes

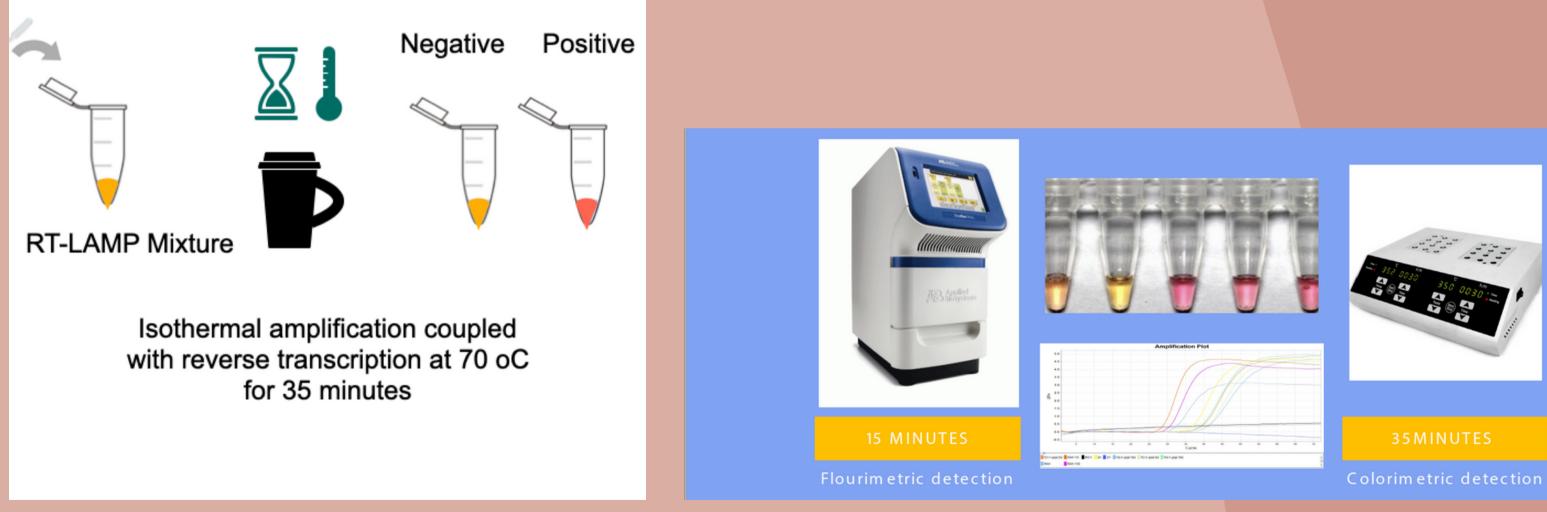


SUGENOMICS COVID TEST SOLUTIONS

WE DEVELOPED VIROQUICK SOLUTION TO EASILY EXTRACT THE VIRAL RNA IN JUST 5 MINUTES

IT IS POSSIBLE TO DETECT CORONA VIRUS BY VIROLAMP KIT IN MINUTES. FLUORIMETRIC DETECTION OPTION PROVIDES VIRAL DETECTION IN JUST 15 MINUTES. ADDITIONALLY YOU CAN DETECT THE VIRUS IN 35 MINUTES WITHOUT ANY COMPLICATED PCR INSTRUMENT.

LAMP REACTION

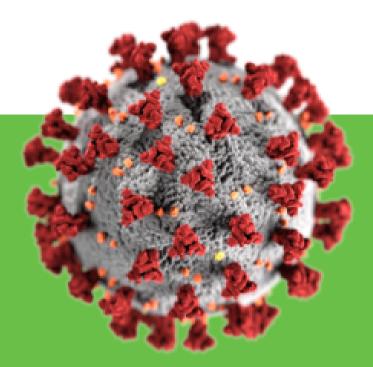


SUGENOMICS OFFERS;

Delta K417N Kit
UK Variant N501Y Kit
Delta+ K417 and N501Y Kit
Flu+COVID (Influenza A , B and N2 of SARS nCOV) Kit







Tests were done

We are continually progressing for development of our kits.

In Germany, we are performing daily tests!

HIGHLIGHT +5000

HIGHLIGHT

+12000

LAMP tests with >99% success in Germany, Austria, and Saudi Arabia

HIGHLIGHT

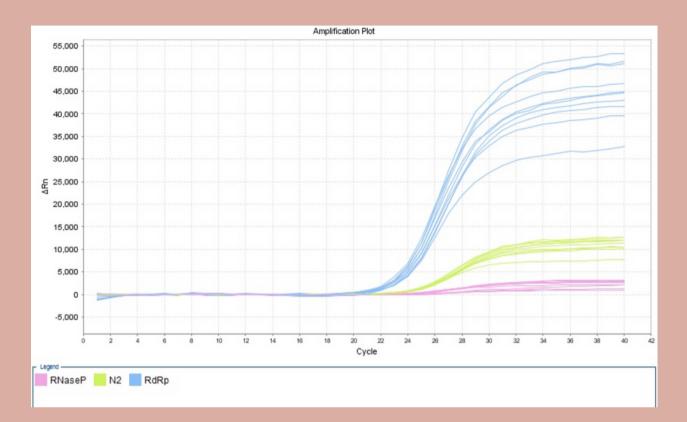
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PCR tests in Germany, Azerbeycan, and Saudi Arabia with >99% success

Companies in France, UK, US, and Afghani contacted for OEM (agreement in progress)





WWW.SUGENOMICS.COM



