

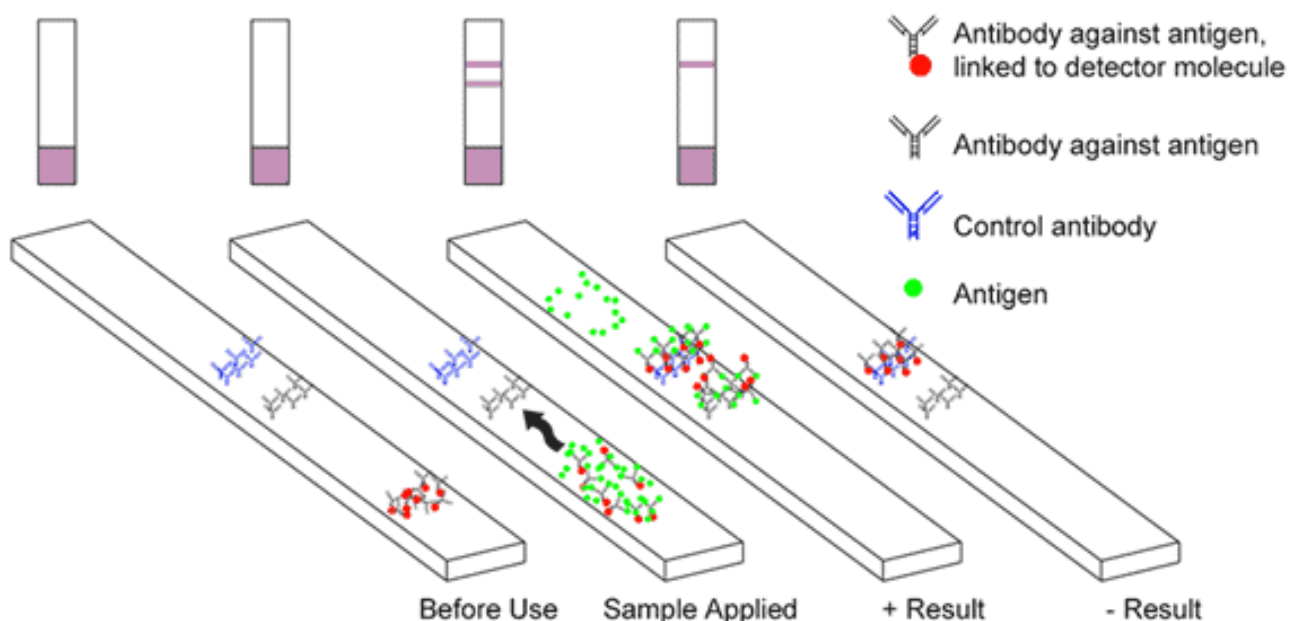


**Avid Biotech can provide a complete solution for SARS-Cov-2 testing, including Antibodies, Antigens, Uncut sheets, Kits, etc.**

## SARS-CoV-2 Antigen Rapid Test

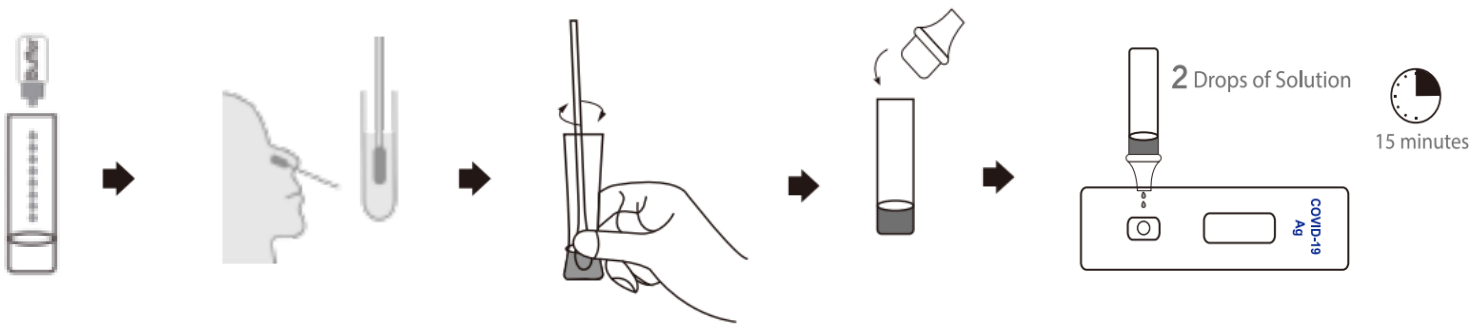
AiVD Biotech's COVID-19 Ag test is a lateral flow immunoassay intended for the qualitative detection of nucleocapsid protein (NP) antigen from SARS-CoV-2 in direct nasal swabs from individuals suspected of COVID-19.

### How It Works



## SARS-CoV-2 Antigen Rapid Test

### Steps



Products Name	Main Features	Intended Use
SARS-CoV-2 Antigen Detection Kit (Latex Lateral Flow Assay)	15-minute rapid detection CE-IVD marked Export White List Nasal (NS) swab collection	For in vitro qualitative detection of COVID-19 in human pharyngeal or nasal secretions samples.

Perform manually. No special instrument required



swab

sample tube

lysate dilute

dropper

test card

## SARS-CoV-2 Uncut Sheets

The Uncut Sheets are designed for manufacturing COVID-19 rapid testing products.

The lateral flow immunoassay supported by Uncut Sheets is intended for the qualitative detection of antigen or antibody from individuals suspected of COVID-19.

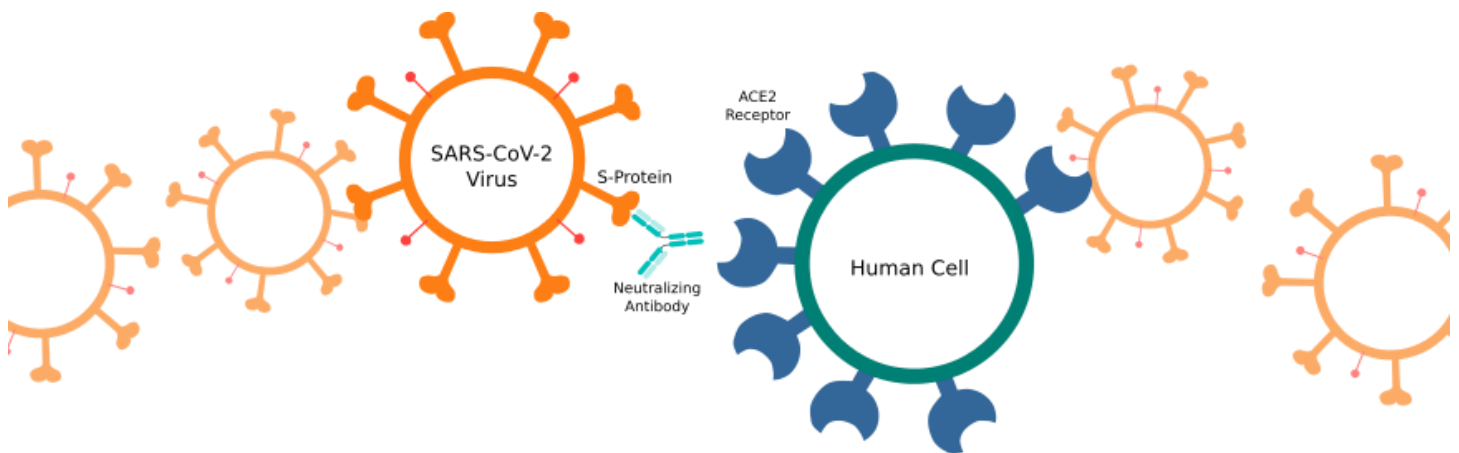


Cat #	Product Name	Platform	Features
USCOV005	SARS-CoV-2 Antigen Rapid Lateral Flow Test	latex bead-based	Sensitivity: 90.7%; Specificity: 97.3%
USCOV201	SARS-CoV-2 IgG/IgM Rapid Lateral Flow Test (colloidal gold-based)	colloidal gold-based	Accuracy: : > 90% Specificity: 97%

## Neutralization Antibody Detection Kit

### Background

SARS-CoV-2 neutralizing antibodies can interfere with viral entry into host cells by blocking viral binding to a cell surface receptor.



Measuring SARS-CoV-2 neutralizing antibodies bind to the RBD and block the virus is crucial to determine novel vaccines and antibody-based therapies effectiveness .

Cat #	Description	Method	Specimen Type
ELK05D	SARS-CoV-2 Neutralizing Antibody Detection ELISA Kit	Competitive ELISA	Serum or plasma

## Neutralization Antibody Detection – Raw Material



Cat #	Description	Platform	Source
AGRBDCH1	SARS-COV-2 Spike RBD Recombinant Protein	Lateral Flow/ELISA/C LIA	HEK293
AGRBDRH1	SARS-COV-2 Spike RBD Recombinant Protein	Lateral Flow/ELISA/C LIA	HEK293
AGCOV121	SARS-COV-2 Spike RBD Recombinant Protein-HRP	ELISA	HEK293
PRACE002	Human ACE2-hFc Recombinant Protein	Lateral Flow/ELISA/C LIA	HEK293
CTCOV002	Anti SARS-COV-2 Neutralizing Antibody	Lateral Flow/ELISA	Mouse

## COVID-19 (SARS-CoV-2) Antibodies



AIVD Biotech is now offering the SARS-CoV-2 nucleoprotein antibody pair and SARS-CoV-2 Spike RBD antibody pair for rapid COVID-19 antigen assays to equip healthcare workers for rapid COVID-19 antigen detection.

Cat #	Description	Platform	Source
ABCOV025	Anti SARS-COV-2 Nucleocapsid(NP) mAb	Lateral Flow/ELISA	Mouse
ABCOVN01	Anti SARS-COV-2 Nucleocapsid(NP) mAb	Lateral Flow/ELISA	Mouse
ABCOVN02	Anti SARS-COV-2 Nucleocapsid(NP) mAb	Lateral Flow/ELISA	Mouse
ABCOV024	Anti SARS-COV-2 Spike RBD mAb	Lateral Flow	Mouse

## COVID-19 (SARS-CoV-2) Antibodies



AIVD Biotech is now offering the SARS-CoV-2 nucleoprotein antibody pair and SARS-CoV-2 Spike RBD antibody pair for rapid COVID-19 antigen assays to equip healthcare workers for rapid COVID-19 antigen detection.

Cat #	Description	Platform	Source
CTCOV001	SARS-CoV-2 Spike RBD IgG Humanized mAb	Lateral Flow/ELISA	HEK293
CTCOV002	Anti SARS-COV-2 Neutralizing Antibody	Lateral Flow/ELISA	Mouse
ABCOV015	Anti SARS-COV-2 Spike RBD mAb	Lateral Flow	Mouse
ABCOV023	Anti SARS-COV-2 Spike RBD mAb	Lateral Flow	Mouse

## COVID-19 (SARS-CoV-2) Antigens



AIVD Biotech has developed the highest quality recombinant 2019-nCoV antigens (Nucleocapsid Protein and Spike proteins) for rapid COVID-19 antibody assays to equip healthcare workers for rapid COVID-19 antibody detection.

Cat #	Description	Platform	Source
AGCOV001	SARS-COV-2 Nucleocapsid Recombinant Protein	Lateral Flow/ELISA/CLIA	E.coli
AGCOV122	SARS-COV-2 Nucleocapsid Recombinant Protein-HRP	ELISA	E.coli
AGRBDCH1	SARS-COV-2 Spike RBD Recombinant Prot	Lateral Flow/ELISA/CLIA	HEK293
AGRBDRH1	SARS-COV-2 Spike RBD Recombinant Protein	Lateral Flow/ELISA/CLIA	HEK293



## COVID-19 (SARS-CoV-2) Antigens



Cat #	Description	Platform	Source
AGRBDCH2	SARS-COV-2 Spike RBD-mFc Recombinant Protein	Lateral Flow/ELISA	HEK293
AGCOV121	SARS-COV-2 Spike RBD Recombinant Protein-HRP	ELISA	HEK293
PRACE002	Human ACE2-hFc Recombinant Protein	Lateral Flow/ELISA/CLIA	HEK293
AGCOVS01	SARS-COV-2 S1 Recombinant Protein	Lateral Flow/ELISA/CLIA	HEK293
AGCOVSJ2	SARS-COV-2 S1 Recombinant Protein (high purity)	Lateral Flow/ELISA/CLIA	HEK293

## AIVD manufactures high-quality raw materials for the IVD industry and supplies necessary products to aid in the COVID-19 response.

Avid Biotech can provide a complete solution for SARS-Cov-2 detection, including components for nucleic acid extraction and fluorescent quantitative PCR.

Product Name	Description	Volume	Cat#
Viral DNA / RNA Extraction Kit	Viral Total Nucleic Acid Purification Kit	50T	EE001
Viral RNA Extraction Kit	Viral RNA Purification Kit	50T	EE002
Probe AB Taq One Step RT-qPCR Mix	The kit combines everything you need in one tube. Just add the primers and probe to prepare the solution. (25ul reaction system)	200T	MX005
Probe AB Taq One-Step RT-qPCR Pre-Mix	The reaction solution and the mixed enzyme solution are divided into 2 tubes. (25ul reaction system)	200T	MX006
AB HS Taq DNA Polymerase	Antibody modified hot started Taq DNA polymerase, heat shock 1-3min	5000U	EN003
M-MLV reverse transcriptase	Reverse transcriptase	20000U	EN006
RT-PCR Enzyme mix	Mixed solution containing M-MLV and AB HS Taq enzymes	100T	MH001
RNase Inhibitor	RNase inhibitor	4000U	EN008
Taq DNA Polymerase antibody		1ml	AT001

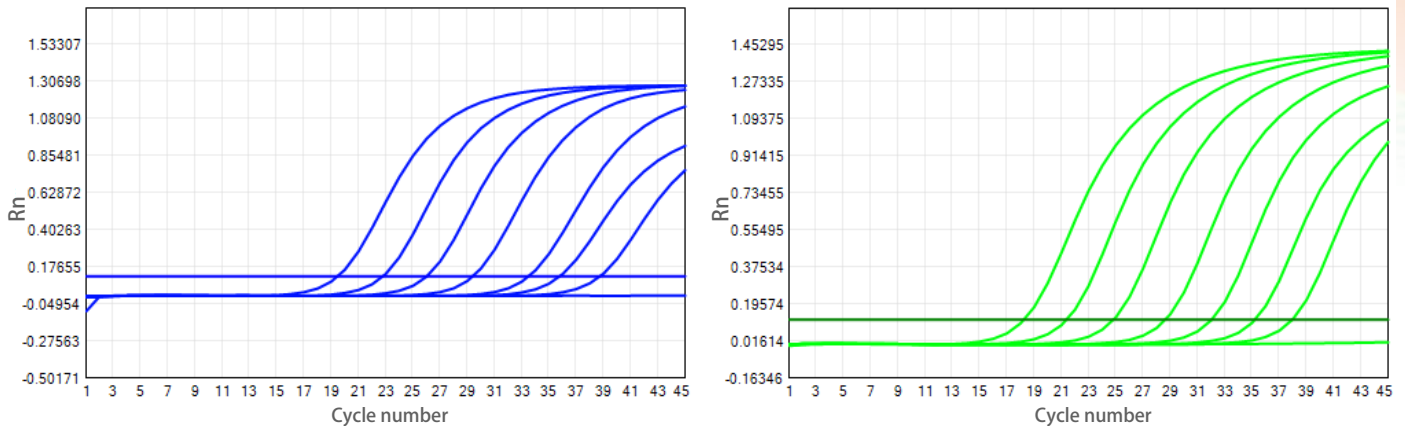
## 1. Probe AB Taq One Step RT-qPCR Mix (Cat#: MX005)

The kit combines everything you need in one tube for rapid one-step RT- qPCR. Just add the primers and probe to configure the new coronavirus nucleic acid detection kit.

The Mix possess a great anti-interference ability.

Mix contains UNG (Uracil-DNA Glycosylase), which helps to prevent from generating false positive results.

### Configuration of SARS-CoV-2 Nucleic Acid Diagnosis Kit using MX005. Testing result of SARS-CoV-2 Positive Standard.



Amplified genes: ORF1ab, N gene

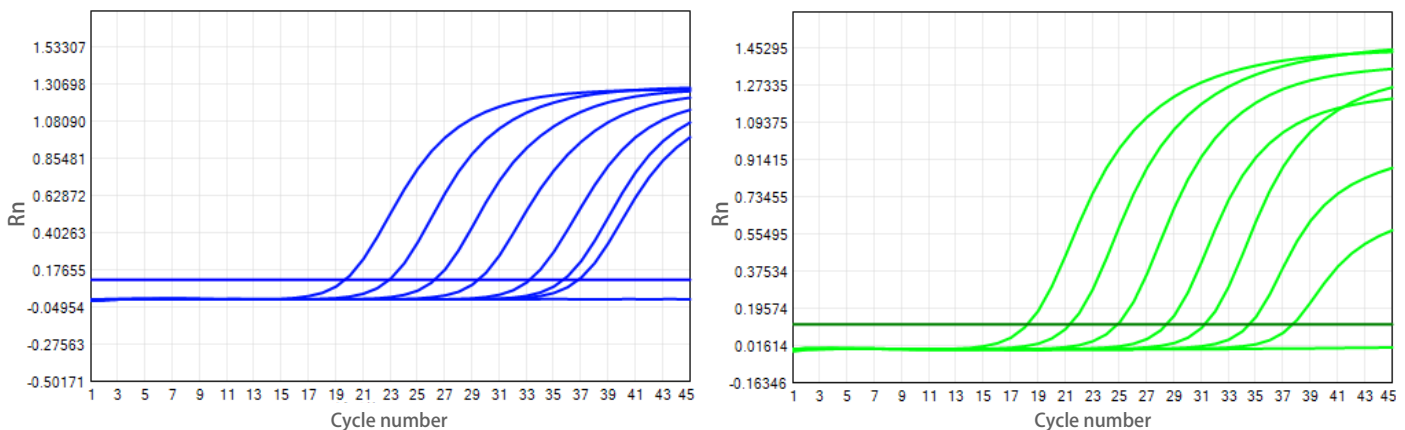
Amplification copy number: 10-fold gradient concentration  $1 \times 10^1$  -  $4 \times 10^8$  copies/ml.

Following MX005 protocol's recommendations for reaction system and conditions, 100 copies of the double gene of the SARS-CoV-2 Standard could be stably detected.

## 2. RT-PCR Enzyme Mix (Cat#: MH001)

A mixed solution containing M-MLV and AB HS Taq enzymes. RT-PCR Enzyme Mix has the characteristics of good stability, high amplification efficiency and good amplification specificity.

### Configuration of SARS-CoV-2 Nucleic Acid Diagnosis Kit using RT-PCR Enzyme Mix and AIVD's RT-PCR buffer. Testing result of SARS-CoV-2 Positive Standard.



Amplified genes: ORF1ab, N gene

Amplification copy number: 10-fold gradient concentration  $1 \times 10^1$  -  $4 \times 10^8$  copies/ml.