



## **ABOUT US**

16 YEARS DEDICATED IN IVD INDUSTY



## WHAT IS COVID-19?

NOVEL CORONAVIRUS OUTBREAK IN WUHAN 2019



## TEST RESULTS

SAFETY AND ACCURATELY



## PRODUCT SPECIFICATION

EASY TO USE! FAST TO GET RESULT





16 YEARS DEDICATED IN IVD; NMPA, FDA, CE, ISO13485

## **ABOUT US**

NewScen Coast Bio-Pharmaceutical

NewScen is professional IVD products manufacturer and POCT service provider, founded in 2003. Our factory is located in Tianjin, one of biggest port city in Northern China, which benefit us from convenient logistics, and enable us fulfill better order delivery to our customers. We have more than 16 years of industry experience and export experience. Products are sold throughout the country and in North America, South America, Southeast Asia, Europe, the Middle East, Africa and other international markets. And our HIV and HCV products have both got CE approval and passed WHO laboratory evaluation.

We dedicated provide our customers an extensive range of RDTs in satisfying performance with favorable price. Both finished products, semi-finished products, OEM products, Uncut sheets are available for our cooperation.

# NEW SCEN



"Honesty, verity, authenticiy, and innovation" is our persistent commitment.

"Encouraging our employees growing with company"

is the driving force beneath our surging growth.

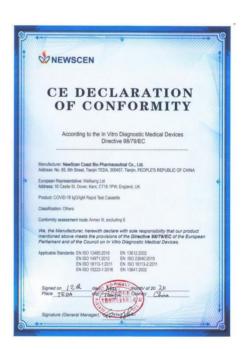
# **CERTIFICATION**

NewScen Coast Bio-Pharmaceutical

## 国际认证







# **CERTIFICATION**

## 国内资质

NewScen Coast Bio-Pharmaceutical



营业执照 Business license



医疗器械经营许可证 Medical Device Manufacturing License



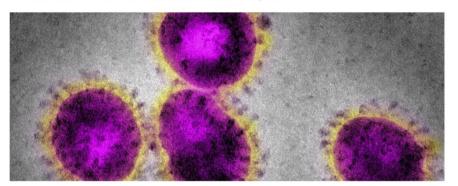
对外贸易经营备案登记表 Registration Certificate For Foreign Trade Dealers



THE NEW CORONAVIRUS OUTBREAK IN WUHAN 2019

## WHAT IS CORONAVIRUS

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Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV).

--- World Health Organition

## How is it spread?







Close personal contact, such as touching or shaking hands



Touching an object or surface with the virus on it, then touching your mouth, nose, or eyes

## What are the symptoms?

Illnesses can be mild, or in some cases be severe enough to require hospitalization. Symptoms of this respiratory illness primarily include:



Fever



Cough



Shortness of Breath

# **COVID-19 RNA (RT-PCR)**

NewScen Coast Bio-Pharmaceutical Co., Ltd

A significant portion of patients who otherwise fit the diagnosis based on clinical and chest CT findings, including many hospitalized patients, have tested negative for viral RNA. Other common respiratory etiologies, such as influenza, were excluded. These remain "suspected" cases and may be reflective of false negativity in sampling. In some patients, the virus may be present in the lower respiratory secretion but absent in the upper respiratory tracts.

- "Evolving status of the 2019 novel coronavirus infection: Proposal of conventional serologic assays for disease diagnosis and infection monitoring" Journal of Medicl Virology

Nucleic Acid Test (PCR) False Negative Risk!

# **COVID-19 Serology Test**

NewScen Coast Bio-Pharmaceutical Co., Ltd

For a new type of infection, it takes time for the body to make strong antibodies. The body can make several kinds of antibodies to fight infections. The two types that herpes blood tests look for are IgG and IgM.

## IgM:

Herpes IgM antibodies usually are detectable by herpes blood tests within 7-10 days after initial infection. IgM levels stay high for approximately two weeks. After that, they usually decline. Therefore, IgM testing is primarily considered to be useful for detecting acute infection.

## lgG:

Immunoglobulin G (IgG), the most abundant type of antibody, is found in all body fluids and protects against bacterial and viral infections.

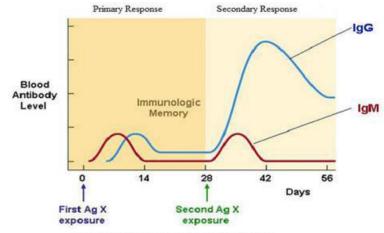
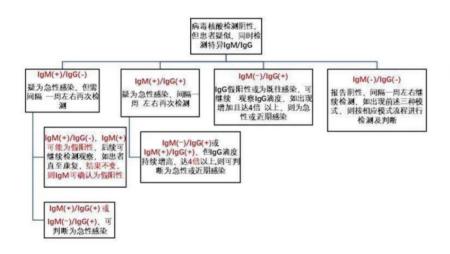


Fig. Immune Response and Secretion of antibodies

	Positive IgG	Negative IgG
Positive IgM	Infection date indeterminate	Acute/Recent infection
Negative IgM	Established Infection	No infection detected

# **COVID-19 Serology Test**

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7th Edition COVID-19 Diagnosis & Treatment Guideline published by the National Health Commission of P.R.China

COVID-19 specific antibody IgM positive & IgG positive OR COVID-19 specific antibody IgG seroconverts or increase 4 times or more then acute phase → INFECTION CONFIRMED

- Highly recommended to use with nucleic Acid (PCR) test in diagnosis of COVID-19
- Easy to sampling, effectively reduce the risk of infection in medical staffs
- Avoid misdiagnosis due tot the incorrect sample collection when performing PCR test

**Continuous Dynamic Detection** 



# COVID-19 IgM/IgG TEST

NewScen Coast Bio-Pharmaceutical Co., Ltd

NewScen		Diagnos	Tatal			
	Po	sitive	Neg	gative	ative	
Positive	А	86	В	9	A+B	95
Negative	С	8	D	258	C+D	266
Total	A+C	94	B+D	267	ABCD	361

Sensitivity = A/(A+C)% = 91.49%

**Specificity** = D/(B+D)% = 96.63%

Total Accuracy = (A+D)/(ABCD)% = 95.29%

The evaluation is carried out in comparison with the blood sample from COVID-19 nucleic acid test (PCR) confirmed cases in CDC and classIII hospitals

Finger Tip Blood **✓** 

15 minute Result GET 🗸

2-30°C Storage ✓

12M Shelf-life V

FAST! EASY! ACCURATE!

# Certificate of Analysis



Address: 65 Sixth Ave., TEDA Tianjin, 300457, P. R. China TEL: 86-22-25321648 Web: www.newscen.com E-mail: busin ess inti@newscen.com

#### COVID-19 IgG/IgM Rapid Test Cassette Certificate of Analysis

Document NO : 7XK.L COVID-001 User Department: QC Dept

Product Name	COVID-19 lg	G/lgM Rapid T	est C	assette				
Lot No.	17C2006			Batch quantity	,	50,000 pcs		
Specification	40 pcs/box			Manufacture I	Date	2020.03.17		
Inspection Date	2020.03.18			Expire Date		02/2021		
Report Date	2020.03.18							
Inspection Item		Inspecti	ion St	andard			Result	
Visual Inspection		Cassett	Appearances complete no damage. Cassette smooth and flawless. Material firmly attached and Complete content.			pass		
Negative Reference Product Coincidence Rate		rate: 10 sample: all nega	Negative reference sample coincidence rate: 10 negative enterprise reference samples were tested and the results were all negative.			pass		
Positive Reference Product Coincidence Rate		100%: 5 sample: all posit reference	Positive reference sample coincidence rate 100%: 5 IgG positive enterprise reference samples were tested and the results were all positive. 5 IgM positive enterprise references samples were tested and the results were all positive.					
Lower Limit of Detectability		3 lgG er limited of should l	3 IgG enterprise reference samples of limited detection were used for testing, L1 should be negative, L2 was an uncertain result, and L3 should be positive.			pass		
Sophisticated Detection			Test results are consistent, color intensity of test lines are the same.			pass		
Conclusion	According to the Enterprise Internal Standards of COVID-19 IgG/IgM Rapid Test Cassette							
Remark								
Checker		Reviewer			Person	In Charg	e	

# **MSDS 1/2**



65 Sixth Ave., TEDA Tianiin, 300457 P. R. China Tel: +86-22-25321648 Ext: 867 Fax: +86-22-25328062 Email: business int@newscen.com

#### Material Safety Data Sheet

Printing date:20130508 Date Updated: 20130121

Section 1- Product and Company Information

Product Name: Sample Diluent

Product Number: Not Applicable

Application of the Product: For research use only Not for use in diagnostic procedures.

Manufacturer: NewScen Coast Bio-Pharmaceutical Co., Ltd

Telephone: +86-22-25321648 Ext: 822

Fax: +86-22-25328062

Emial: business.int@newscen.com

#### Section 2 - Composition/Information on Ingredient

Description of Components: NayHPO4 0.29%; KHyPO4 0.02%; NaCl 0.85%; NaNy 0.02%; H2O2 98.82%

Hazardous Ingredients: No hazardous substances or mixtures are contained

#### Section 3 - Hazards Identification

#### Potential Health Effects

Inhalation: None anticipated with normal use

Skin: None anticipated with normal use

Eyes: None anticipated with normal use

Ingestion: May be harmful if swallowed

Potential Effects of Chronic Exposure: None anticipated with normal use

Universal Precautions: All patient samples and contaminated components should be handled as potentially infectious. Wear personal protective equipment and wash hands after handling test.

Warning Properties: None related to the components within this kit.

#### Section 4 - First Aid Measure

If inhaled: Inhalation of any component is unlikely

In case of Skin Contact: Wash off with soap and plenty of water.

In case of Eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### Section 5 - Fire Fighting Measures

Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, or alcohol-resistant foam.

Special Fire Fighting Procedures: This material will not significantly contribute to the intensity of a fire. Trained emergency responders should wear self-contained breathing -1-



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Email: business into newscen.com

apparatus and appropriate personal protective gear to prevent confact with skin leves and respiratory system.

Unusual Fire and Explosion Hazards: When involved in a fire, this material may, decompose and produce irritating fumes and toxic gases (e.g., Carbon monoxide, Carbon dioxide)

Additional Considerations: Not applicable

#### Section 6 - Accidental Release Measures

Personal Precautions: Follow Universal Precautions when cleaning-up patient samples. Environmental Precautions: Not applicable

Spill and Leak Procedures: Not applicable

#### Section 7 - Handling and Storage

#### Precautions for Safe Handling:

As with all chemicals and biological substances, avoid getting components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal Precautions should be followed when using this kit.

Conditions for Safe Storage: To maintain efficacy, store according to the package insert instructions.

Specific Use: For in vitro diagnostic use only - Not for use by general public!

#### Section 8 - Exposure Controls and Personal Protection

Exposure Limits: Not available

Occupational Exposure Controls:

Engineering Controls: No special engineering controls are required when working with this kit.

Personal Protective Equipment (PPE): Safety glasses and disposable gloves are recommended.

Hygiene Measures: Wash hands and work surfaces after handling the components of

Environmental Controls: No special environmental controls are required.

#### Section 9 - Physical and Chemical properties

Characteristic	Liquid
Boiling Point, Melting Point, Flash Point, Ignition Temperature (C)	Not applicable
Specific Gravity / Evaporation Rate (Ether = 1)	Not applicable
Vapor Pressure (mm Hg) / Vapor Density (AIR = 1) / pH	Not applicable

- 2 -

# **MSDS 2/2**



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Lower Explosion Limit (LEL) / Upper Explosion Limit (UEL)	Not applicable
Solubility in Water:	Not applicable
Appearance and Odor:	Not applicable

#### Section 10 - Stability and Reactivity

Characteristic	Liquid
Stability	Stable
Conditions to Avoid	None known
Materials to avoid (Incompatibilities)	None known
Hazardous Decomposition or Byproducts	None known
Hazardous Polymerization	None known

#### Section 11 - toxicological Information

Toxicity Data for Hazardous Ingredients: No toxicity data available

Primary Routes of Exposure: Overexposures to the components within this kit are unlikely.

Potential Health Effects (Chronic / Acute):

General irritation to skin, eyes and GI tract with repeated contact from the improper use of the test components.

Symptoms of Overexposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for this kit.

Medical Exposure Aggravated by Exposure: None known

Carcinogenicity:

To the best of our knowledge, this kit does not contain any substances that are listed by ACGIH, IARC, NTP or California Prop 65.

Specific target organ toxicity - single or repeated exposure (GHS): No data available

#### Section 12 - Ecological Information

Ecotoxicity, Mobility, Persistence and Degradability, Bio accumulative Potential and Other Adverse Effects: No data available

#### Section 13 - Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country (i.e., Canada, EU, Japan, etc.), federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information



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Section 14 - Transport information

DOT

Proper Shipping Name: None

Non-Hazardous for transport: This substance is considered for transport. IATA

Non-hazardous for air Transport: Non-hazardous for air transport.

Section 15 - Regulatory information

U.S. Federal and State Regulations: Not applicable Label Information - ANSI Z129.1: Not applicable Canadian Regulations: Not applicable

EU Labeling Classification: Not applicable

Japan - Existing and New Chemical Substances (ENCS): Not applicable

#### Section 16 - Other information

This MSDS has been prepared in accordance with ANSI Z400.1 format and the guidance provided under the Globally Harmonized System (GHS). Every effort has been made to adhere to the hazard criteria and content requirements of the US OSHA Hazard Communication Standard, European Communities Safety Data Sheets Directive. Canadian Controlled Products Regulations, UK Chemical Hazard information and Packaging Regulations, and UN Globally Harmonized System of Classification and Labeling of Chemicals.

- 3 -- 4 -



EASY TO USE

FAST TO GET RESULT

# **PRODUCT VIEW**





# COVID-19 IgM/IgG TEST

NewScen Coast Bio-Pharmaceutical Co., Ltd





NewScen SARS-COV-2 Antibody IgM/IgG Rapid Test Kit (Colloidal Gold)

# **OPERATION MANUAL**

#### COVID-19 IgG/IgM Rapid Test Cassette

For the qualitative detection of InG/InM antihodies in serum/ plasma and whole blood

For the qualitative detection of IgG/IgI/d ambitodes in serum joissum and whole blook first instruction may be made completely and completely give to the use of COVID-10 [post/96]. They for Carestine, between the made completely give to the same of COVID-10 [post/96]. They for Carestine, between the complete completely give to the same of the complete give the case of the complete completely give the completely give to the complete give the case of the completely give the completely give the completely give the precautions for Prevention of Transmission of Human Immunodeficiency Virus, Hepatitia B Virus and Other Blook Borne Principann in 16 tells for Settings.

INTERNATION OF THE CONTROL OF THE CO

sound 1 care for used as the dates to the dispress and estimated CVVV-19.

This is done closed get immunophromatogeness and estimated converges promptle of comprohenfinal states closed get immunophromatogeness and estimated converges and estimated conferences and estimated conferences and estimated and estimated conferences and estimated particles and estimated conferences and estimated particles and estimated estimated conferences and estimated esti

lest casserie (incliviously pouched)
 Each pouch contains one cassette with one desicoant bar.

5. Plastic dropper (optional)
MATERIALS REQUIRED BUT NOT PROVIDED.

Riport collection devices, for the testing of venicuncture whole blood, serum or plasma.

Disposable gloves
 Piper and pipers to
 For finger stick samples, the following materials are required:
 Alcohol paid

Sterile gauze or cotton WARNING

CE

WARNING For in vitro disignostic use ONLY Read the package insert completely before use. It is very important that the correct procedure followed. Fall to add the patient sample may lead to a talke negative result (i.e. a missed positive). Y etely before use. It is very important that the correct procedure is PRECAUTIONS

PRECAUTIONS

1. This product is an in vitro diagnostic reagent to qualitatively detect the IgGIIgM of SARS-CoV-2 in humas serum plasma and whole blood.

2. Usqualified samples will lead to woreg results, such as the hemoglobin in the hemotysis sample > 6g/L, trig/yeorides in hyperlipidemia samples > 15g/L, bilinibin in jaundice samples > 0.2g/L, RF > 1.000/Limit. In his hemotysis is the production of the

1200Usin; In theunisticid samples.
3. All the waster responses reported to be treated in case of transcritting disease and must be properly.
3. All the waster responses reported to the transcribing disease and must be properly.
4. Make size the test is not exprised EXPC Date in indicated on the kit boal;
5. Die not cus the test of the proprish has been performed.
6. If petter is used, calibrate popter frequently to assure the accuracy of dispensing. Use a different 7. Die not mostly the last procedure.

but not modify the set procedure.
 Each test is for single use only.
 Blood that has been chemically treated, heated, diluted, or otherwise modified may result in inaccurate.

suts.

1. Always interpret the results under good light conditions to avoid misreading of the results, 11.

Newlys Iller(pet) Iller results under your plan consistence of the results.
 If descount bag is not present in the pouch, DO NOT USE the test.
 Always add accurate volume of specimen by following the instruction.
 The test cassettle must be used directly after unsealing. It is not allowed to divide it for use.

Ine cest cassette must be used orienty area unsessing. It is not allowed to divide a for use.
 De not bout the reaction zone of the reagent.
 If the samples are stored in refrigerator, they should be placed in room temperature before testing.
 If the debetion reagent is stored in refrigerator, it should be restored to room temperature before

festing.

18. Read the result in 15–20 minutes. Interpret the test result after 20 minutes may cause false result.

STORAGE

Through the insulin in 19–20 minutes, interpret the last result after 20 minutes rangi cause base result. (CDU) 10 fig/sig/sig/sig/correct part of consents and section of card parts of 200°C for 12 months from the causests of all the procedure. Do not consent the section of the procedure of the consent of the procedure of the consents of the co

some Collect whole blood into a collection tube (containing EDTA, Na-citrate or heparin) by venipuncture. Separate the plasme by centrifugation Serum f. Collect whole blood into a collection tube (containing no anticoaquiants) by venipuncture. 2. Allow the

blood to clot.

3. Separate the serum by centrifugation.
Avoid the use of hemolytic, furted, microgramism confaminated specimens. Specimen should be stored
at 2-8°C for up to 3 days or frazen at -20°C for up to 9 days. Avoid specimen deterioration by multiple

freeze-thaw cycles. Verspuncture Whole Blood

Venipuncture whole blood can be used immediately after collection or stored up to 3 days at 2-8°C.

AREAN PROCEDURE



1. Sample preparation. Fresh serum, plasma or whole blood samples, no pretreatment is required. If the samples are stored in 2-9°C, the samples should be restored at room temperature for 16-30 minutes before use, rejunted to more temperature, and thoroughly missed botton testing.
2. Resigned preparation. Once the proclaige, the pouch should be sested well. If the test reagent stores in the retrigentation, it should be restored to room temperature. Then open the package pouch and take out. the temperatur, it should be feative to chorum emperature. I man open may examine pound and asked out the last reagent, place if on the platform.

3. Detection and interpretation: Add 15(µL, serun/plasma or 25(µL, whole blood sample into S well, after the sample has permeated completely, add 2 drops diluent buffer. Read the result in 15 ~ 20 minutes, interpret the last result after 20 minutes may cause faite result.

WITERPRETATION OF RESULTS.



1. Positive of IgG and IgM: One color line in the control zone (C), one color line in the test zone (G) and one color line in the test zone (G). Indicates IgG and IgM test result is positive.

2. Positive of IgG: One color line in the control zone (C) and one color line in the test zone (G), indicates IgG test result is positive.

3. Positive of last: One color line in the control zone (C) and one color line in the test zone (M), indicates

 Positive or igns.
 If the state of t is negative.

5. Invalid: If no color line appears in the control zone (C), the test is invalid. Discard the test cassette and

Built-In Control

COVID-19 IgGright Rapid Test Cassette has a built-in procedural control that demonstrates assay validby. A color line appeared on the control zone (C) indicates that the test runs correctly.

validat, Accider fine appeared on the control zone (C) installes mare me sen nan-aververy.

LEATTAINS

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response.

4. Due to the similation of antibody detection reagent methodology, nucleic acid detection or virus culture identification method is recommended to confirm the negative test results.

5. Do to be levels of the virus in the sample can lead to fails registive results.

The mutation of the virus gene may cause the change of the antibody determination cluster resulting in false negative results.

PERFORMANCE CHARACTERISTICS.

1. Negative reference samples coincidence rate: 10 negative enterprise reference samples were a common the productive research and the productive research applications of the productive reference samples were stated and the results were all positive. Shall positive enterprise reference samples were tested and the results were all positive. 5 that positive enterprise reference samples were tested and the

results were all positive. 3. Minimum detectability: 3 loG limited detection of enterprise reference samples were used for testing.

3. Minimum detectability: 3 (s) limited detection of enterprise reference samples were used for testing. It should be negative. It was an uncertaint resized, and 1.3 should be positive. It was an uncertaint resized and 1.3 should be positive. It will be negative, a limited detection of enterprise reference samples were used for feeting. It should be negative, I have a limited of the state of the samples which is a sample should be considered as a sample should be considered and unform. A limited by the state of the sample should be consistered and unform. Parallel lest light extreprise repeatable; reference sample to filmes, the color development results of parallel lest light extreprise repeatable; reference sample to filmes, the color development results of parallel lest light extreprise repeatable; reference sample to filmes, the color development results of parallel lest light extreprise repeatable; reference sample to filmes, the color development results of parallel lest light extreprise repeatable; reference samples when the samples were used for the samples when the samples were used for the samples were use

pination should be consistent and uniform parallel determination should be consistent and uniform.

S. Inter-for repeatability: Parallel determination of IGG enterprise repeatability reference sample with 3 batches of reagents, each batch repeated 10 times, the color development results of parallel determination between 3 batches should be consistent and uniform. Parallel determination of IgG and enterprise repeatability reference sample with 3 batches of reagents.

Parallel determination of IgG enterprise repeatability reference sample with 3 batches of reagents, each batch repeated 10 times, the color development results of parallel determination between 3

Interfering substance: Unqualified samples will lead to wrong results, such as the hemoglobin in the

6. Interfering substance: Unqualified samples will load to wrong results, such as the hemoglobin in the hemoglobin in the hemoglobin in the hemoglobin of the plant of the samples. 1951, United hemoglobin in the hemoglobin in

	NewScen		Clinical sam	ple informatio	90	Tota	
Nev	NewGoen	Positive		Negative		Total	
	Positive	A	129	В	0	A+B	129
	Negative	C	13	D	381	C+D	391
	Total	A+C	142	B+D	381	A+B+C+D	523

Positive coincidence rate: A/IA+C/56 = 90 85% (95% credibility interval: 84 85% - 95 04%) A(A+C)% = 90.50% (95% credibility interval: 94.55% = 95.04%)
Negative coincidence rate:
D(B+D)% = 100.00% (95%credibility interval: 99.04% = 100.00%)

D(B+D)% = 100 Durs (100 notes no. ) Total coincidence rate: 14+DV(A+B+C+D)% = 97.51% (95% credibity interval: 95.79% - 98.67%)

2	Do not re-use
IVD	For In Vitro Diagnostic medical device
8	Use by date
~~	Date of manufacture
210 1 300	Temperature limitation
(Ii	Consult instructions for use
to mer	Authorized Representative in the European Community
LOT	Batch code
$\sum_{\mathbf{n}}$	Contains sufficient for < n > tests
(€	CE Mark
-	Manufacturer

Product disclaimer: This product has been manufactured under strict GMP regulation to ensure the disposable accuracy of the test. It is out of control of the manufacture when the test is performed in disease environment and by diverse opinion from the test is performed in the control of the distribution of the sessional production degree. Note: The manufacture five distribution of its associates will not be liable for any lesses, claims, liability, costs or dismagnes, whether detect or radiced or consequential airrain port of or related to an incorrect diagnosis, whether a positive or negative by use of this product.

Newscen coast Bio-Pharmaceutical co., Ltd.

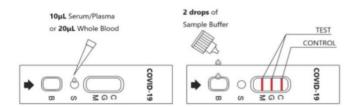


# COVID-19 IgM/IgG TEST

NewScen Coast Bio-Pharmaceutical Co., Ltd

## **OPERATION PROCESS**

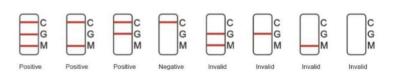
Add the sample



10uL Serum/Plasma 20uL Whole Blood

### INTERPRETATION OF RESULTS

Observe the result in 15-20minutes



NewScen SARS-COV-2 Antibody IgM/IgG Rapid Test Kit (Colloidal Gold)

# PACKAGE SPEC.

Box size: 250\*125\*65 mm

Carton size: 65\*51\*33 cm

Weight/each carton: 18KG



Package: 40pcs/box, and 50 boxes/carton

Totally: 100,000 pcs for 50 cartons

