



Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) Summary Data



Beijing Hotgen Biotech Co., Ltd.



Explanation of The Export License

To whom it may concern

According to the No.12 Government Notice published by MOC, GAC and NMPA, CCCMHPIE announced the list of companies which were permitted to export novel coronavirus diagnostic products, Hotgen is in the list as aforesaid.

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0	北京热景生物技				911101	15777090586	1	欧盟CE
	Beijing Hotgen bi	otech Co., Ltd.						



Email: sales@hotgen.com.cn

目录

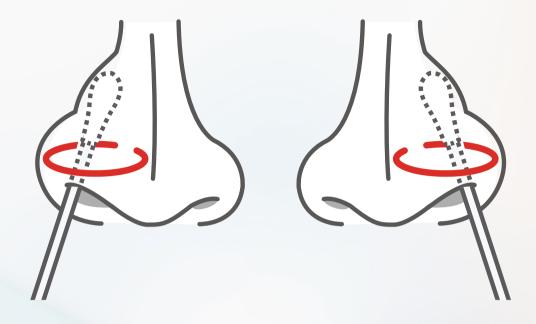
(Contents)

1,	产品彩页(Product Brochure)
2、	公司介绍(Company Profile)
3、	符合性声明(Declaration of Conformity)4
4、	CE 回执(CE Receipt)
5、	说明书(Instructions for Use)10-12
6、	产品照片(Product Photos)
7、	包装信息(Packing Information)14
8,	临床验证报告(Clinical Trial Summary Report)15-17
9、	检测灵敏度(The Sensitivity of Test)18
10	航空鉴定书(Certification for Safe Transport of Chemical Goods)19
11、	ISO13485 认证(ISO13485 Certificate)
12、	企业资质(Enterprise Qualification) 21-23









Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)



Product Features

- High Accuracy, Specificity and Sensitivity
- No need instrument, get results in 15 minutes
 - Room temperature storage
 - Sample: Human Anterior Nares Swab
 - Detect the presence of viral proteins
 - Identify acute or early infection •

Clinical Performance

(Disease Course 5-7 Days)



Sensitivity: 96.30%; Specificity: 99.13%; Accuracy: 97.76%.

Novel Coronavirus 2019-nCoV Antigen Test(Colloidal Gold)

Specimen Requirements

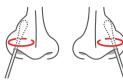


Sample collection

Gently insert the entire soft tip of the swab into one nostril for 1.5cm until vou feel a bit of resistance.

Using medium pressure, rub the swab slowly in a circular motion around the inside wall of your nostril 4 times for a total time of 15 seconds.

Repeat the same process with the same swab in the other nostril.



2

Sample treatment

The swab after sampling is soaked below the liquid level of the sample extraction buffer. Rotate and press 3 times. The swab soaking time is not less than 15s. $\ \ \|$



The swab head is pressed, then take out the swab and tighten the sampling tube.



Sample preservation

The treated sample should be tested within 1h.

Test Procedure



Place the test cassette, sample extraction buffer at room temperature for 15~30 minutes, and equilibrate to room temperature (10~30 $^{\circ}$).



Open the aluminum foil pouch of the test cassette, place the test cassette on a flat surface.



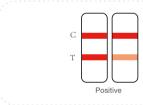
Add 4 drops of the treated sample into the sample well of the test cassette. (In case of chromatographic abnormalities, extra add 1~2 drops of the treated sample accordingly.) Incubate at 10~30 C for 15 minutes



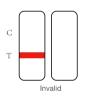


Observe the results after Incubate at 10~30 °C for 15 minutes. The result after 30 minutes is invalid.

Interpretation of result







Clinical Performance

This study enrolled a total of 223 human anterior nasal swab specimens, of which 108 were positives for RT-PCR Test, 115 negatives for RT-PCR Test; As for data collection of the corresponding RT-PCR Test results.

Assessment system	Reference system (clinical diagnostic results)			
Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)	Positive(+)	Negative(-)	Total	
Positive(+)	104	1	105	
Negative(-)	4	114	118	
Total	108	115	223	

Sensitivity: 96.30%; Specificity: 99.13%; Accuracy: 97.76%.

Product information

Product name	Test samples	Specifications	Storage conditions
Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)	Human Anterior Nares Swab	1T/kit, 5T/kit, 20T/kit, 40T/kit	4-30°C

Company Profile

Beijing Hotgen Biotech Co., Ltd. (abbreviated as Hotgen Biotech, stock code: 688068) was established in June 2005, which is a high-tech enterprise focusing on the research& development, manufacture and sales of medical and public safety inspection products of in vitro diagnostics (IVD) in the field of biomedicine, as well as landed on the China Sci-Tech innovation board (STAR Market) in September 2019.

After serval years of Research& development, Hotgen Biotech has developed an in vitro diagnostic reagent bioactive raw material development platform, a sugar chain abnormal protein detection (sugar capture) R&D technology platform, a Magnetic particles chemiluminescence R&D technology platform, a Up-converting Phosphor R&D technology platform, and a colloidal gold immune layer, The eight major technology platforms, such as the precipitation R&D platform, enzyme-linked immunoassay R&D technology platform, molecular diagnostics R&D platform, and instrument R&D technology platform, form a closed-loop system for in vitro diagnostic R&D and production. Hotgen Biotech has established a complete full level immunodiagnostic technology platform, from high-precision Up-converting Phosphor POCT (UPT series) to small, medium and large single- cartridge chemiluminescence platforms (MQ60 series), and then to large-scale full-automatic chemiluminescence Platform (C2000), which realizes the application of the immune diagnostic platform in the field of full diagnostic scenarios. Supporting products are widely used in the clinical and public safety fields. Specific users include hospitals at all levels, township health centers, third-party testing centers, and medical institutions, as well as medical and health institutions, as well as disease control centers, public security, fire protection, military, ports, food and medicine. Supervision, food and feed enterprises and other public safety fields.

Hotgen Biotech has won the second prize of the National Technology Invention Award, the Gold Medal of Independent Innovation, and the second prize of the Chinese Medical Science and Technology Award; In 2018, Hotgen Biotech was awarded the second prize of the "Technical Invention Category of China Rare Earth Science and Technology Award" by the China Rare Earth Society; Top 100 Private Scientific and Technological Innovations "and" Top 100 Medical Enterprises of the Future "; and" Postdoctoral Scientific Research Workstation "; major science and technology projects in the 12th and 13th five years, 863 plan, science and technology projects of the Beijing Science and Technology Commission, and Zhongguancun High Precision The project's major cutting-edge original technological achievements transformation and industrialization projects.

In the face of the COVID-19 epidemic situation, Beijing Hotgen Biotech Co.,Ltd has organized R&D developed a variety of Covid-19 detection reagents, including Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold), Novel Coronavirus 2019-nCoV Antigen Test (Up-converting Phosphor Immunochromatographic Technology), Coronavirus disease(COVID-19) Antibody Test (Colloidal Gold), Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Colloidal Gold), Novel Coronavirus 2019-nCoV Antibody Test (Up-converting Phosphor Immunochromatographic Technology), Novel Coronavirus (SARS-CoV-2) Neutralizing Antibodies Test (Colloidal Gold), Coronavirus disease(COVID-19) Nucleic Acid Test Kit (PCR-Fluorescent Probe Method), Disposable virus sampling tube, Nucleic acid Automatic Purification System, Nucleic acid extraction reagent, Biological Sample Releaser kit, etc.It is imperative to fight the epidemic Helping the global fight against epidemics!

Since its establishment, the company has continuously grown its business and has now achieved group development. At present, Hotgen (Langfang), Hotgen (Jilin), Weikekang Technology, Shunjing Biological and many other subsidiaries have been established. Hotgen Biotech marketing and service network has covered all regions of the country. Each province is equipped with professional technical service engineers, academic engineers, etc. who are responsible for pre-sales and after-sales work to meet customer needs. The company takes "developing biotechnology and benefiting human health" as its mission, "quality determines the company's life and death, customers determine the company's success or failure, talents determine the company's rise and fall, innovation determines the company's future" as its core values, and "tests because of me advanced" as its philosophy, High ambitions, technological entrepreneurship, and industrial prosperity!



Declaration of Conformity

Manufacturer:

Name: Beijing Hotgen Biotech Co.,Ltd

Address: 9th building, No.9 Tianfu Street, Biomedical Base, Daxing District, Beijing,

102600, P.R.China

European Representative:

MedNet GmbH

Borkstrasse 10,48163 Muenster, Germany

Product Name:

Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)

Novel Coronavirus 2019-nCoV Antigen Test (Up-converting Phosphor Immunochromatographic Technology)

Classification: Others of ANNEX II of IVDD

Conformity Assessment Route: Annex III

We herewith declare that the above mentioned products meet the transposition into national law, the provisions of the following EC Council Directives and Standards. All supporting documentations are retained under the premises of the manufacturer.

General applicable directives:

In Vitro Diagnostic Medical Devices DIRECTIVE 98/79/EC

Harmonized standards:

EN ISO 13485:2016, EN ISO 15223-1:2016, EN ISO 14971:2012, EN 13975:2003, EN ISO 18113-1:2011, EN ISO 18113-2:2011, EN 13612:2002, EN ISO 17511:2003, EN ISO 23640:2015, EN 13641:2002, EN 13975:2003, EN 62366:2008

CE

Signature: Lin Chang

Name:

Lin Changging

Title:

General manager

Place: Beijing, China.

Date of Issue: Aug 27, 2020

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Allgemeine Anzeigepflicht nach §§ 25 und 30 Abs. 2 MPG General Obligation to Notify pursuant to §§ 25 and 30 (2) Medical Devices Act, MPG

Formblatt für In-vitro-Diagnostika / Form for In Vitro Diagnostic Medical Devices

Zuständige Behörde / Competent authority				
	Code DE/CA22			
	Bezeichnung / Name Bezirksregierung Münster, Dezernat 24			
	Staat / State Deutschland	Land / Federal state Nordrhein-Westfalen		
	Ort / City Münster	Postleitzahl / Postal code 48143		
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mitteilungen-dimdi@brms.nrw.de					
Anzeige / Notification					
Registrierdatum bei der zuständigen Behörde Registration date at competent authority 25.01.2021	Registriernummer / Registration number DE/CA22/419-1848.1-IVD				
Typ der Anzeige / Notification type £ Erstanzeige / Initial notification S Änderungsanzeige / Notification of change £ Widerrufsanzeige / Notification of withdrawal					
	Frühere Registriernummer bei Änderungs- und Widerrufsanzeige Previous registration number if notification has been changed or withdrawn DE/CA22/419-1848-IVD				
Anzeigender nach § 25 MPG / Reporter pursuant to § £ Hersteller / Manufacturer S Bevollmächtigter / Authorised Representative £ Einführer / Importer	S Bevollmächtigter / Authorised Representative				
£ Verantwortlicher für das Zusammensetzen von Systemen oder Behandlungseinheiten nach § 10 Abs. 1 und 2 MPG \ Assembler of systems or procedure packs pursuant to § 10 (1) and (2) Medical Devices Act, MPG £ Betrieb oder Einrichtung (aufbereiten) nach § 25 Abs. 1 MPG i. V. m. § 4 Abs. 2 MPBetreibV Institution (processing) pursuant to § 25 (1) Medical Devices Act, MPG in connection with § 4 (2) MPBetreibV £ Betrieb oder Einrichtung (sterilisieren) nach § 25 Abs. 2 i. V. m. § 10 Abs. 3 MPG Institution (sterilizing) pursuant to § 25 (2) in connection with § 10 (3) Medical Devices Act, MPG					

Anzeigender / Reporting organisation (person)	
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E-Mail / E-mail ear-admin@medneteurope.com	

Hersteller / Manufacturer					
	Bezeichnung / Name Beijing Hotgen Biotech Co., Ltd.				
	Staat / State CN				
	Ort / City Beijing		Postleitzahl / Postal code 102600		
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	E-Mail / E-mail info@medneteurope.com	•			
	£ Erstanzeige / Initial notification S Änderungsanzeige / Notification of change				

In-vitro-Diagnostikum / In vitro diagnostic medical device Klassifizierung / Classification £ Produkt der Liste A, Anhang II / Device of List A, Annex II £ Produkt der Liste B, Anhang II / Device of List B, Annex II £ Produkt zur Eigenanwendung / Device for self-testing S Sonstiges Produkt / Other device (all devices except Annex II and self-testing devices) App (Software auf mobilen Endgeräten) £ ja/yes S nein / no Anzeige nach § 25 Abs. 3 Nummer 3 MPG Notification pursuant to § 25 (3) number 3 Medical Devices Act, MPG S "Neues In-vitro-Diagnostikum / New in vitro diagnostic medical device" Handelsname des Produktes / Trade name of the device Hotgen Biotech, CORA CHECK-19 Produktbezeichnung / Name of device **Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)** Angabe der benutzten Nomenklatur / Nomenclature used S EDMS-Klassifikation / EDMS Classification £ GMDN Nomenklaturcode / Nomenclature code 15-04-80-90-00 Nomenklaturbezeichnung / Nomenclature term OTHER VIRAL ANTIGEN/ANTIBODY DETECTION Kurzbeschreibung / Short description In Deutsch / In German Modelle A+B: Dieser Kit wird für die qualitative In-vitro-Bestimmung von neuem Coronavirus-Antigen in menschlichen Nasen- oder Rachenabstrichen verwendet. Er dient zur schnellen Untersuchung von Verdachtsfällen auf neuartige Coronaviren und kann auch als Bestätigungsmethode für den Nukleinsäurenachweis in entladenen Fällen verwendet werden. Modelle C+D (Neuartiges Coronavirus 2019-nCoV-Antigentest (kolloidales Gold) - Speichel): Dieser Kit dient zur qualitativen in vitro-Bestimmung des neuen Coronavirus-Antigens im menschlichen Speichel. Er dient zur Schnelluntersuchung bei Verdacht auf neuartige Coronaviren und kann auch als Bestätigungsmethode für den Nukleinsäurenachweis in entladenen Fällen verwendet werden. In Englisch / In English Models A+B: This kit is used for in-vitro qualitative determination of novel coronavirus antigen in human nasal swabs or throat swabs. It is used as rapid investigation for suspected cases of novel coronaviruscan also be used as a reconfirmation method for nucleic acid detection in discharged cases. Models C+D (Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) - Saliva): This kit is used for in vitro qualitative determination of novel coronavirus antigen in human saliva. It is used as rapid investigation for suspected cases of novel coronavirus, can also be used as a

reconfirmation method for nucleic acid detection in discharged cases.

Zus Eig	sätzliche Angaben im Falle der In-vitro-Dia enanwendung / Addtional information for A	gnostika gemäß Anhang II Annex II and self-testing ir	und der In-vitro-Diagnostika zur vitro diagnostic medical devices
	Nummer(n) der Bescheinigung(en) / Certifica	ate number(s)	
	£ In Übereinstimmung mit den Gemeinsame A) In conformity with Common Technical Spe		
	Ergebnisse der Leistungsbewertung Outcome of performance evaluation		
Ich vo I affir	ersichere, dass die Angaben nach bestem Wi m that the information given above is correct	ssen und Gewissen gemach to the best of my knowledge	t wurden.
Ort City	Münster	Datum Date	2021-01-15
		Name 	Nicole Böhnisch
			Unterschrift Signature
	arbeitungsvermerke / Processing notes r von der zuständigen Behörde auszufüllen / T	o be filled in only by the cor	npetent authority
	Bearbeiter / Person responsible	Telefon / Ph	



Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)

Instructions for Use

FREQUENTLY ASKED QUESTIONS

When can I test myself?

You can always test yourself whether you have symptoms or not. Please note that the test result is a snapshot that is valid for this point in time. Tests should therefore be repeated according to the regulations of the responsible authorities.

 What should I pay attention to in order to obtain the most exact test result nossible?

Always follow the instructions for use exactly. Perform the test immediately after collecting the sample. Dispense the drops from the test tube only into the designated well of the test cassette. Dispense four drops from the sample tube. Too many or too few drops can lead to an incorrect or invalid test result.

The test strip is very discolored. What is the reason or what am I doing wrong?

The reason for a clearly visible discoloration of the test strip is that too large a quantity of drops has been dispensed from the sample tube into the test cassette well. The indicator strip can only hold a limited amount of liquid. If the control line does not appear or the test strip is very discolored, please repeat the test with a new test kit according to the instructions for use.

What should I do if I took the test but didn't see a control line?

In this case, the test result is to be considered invalid. Please repeat the test with a new test kit according to the instructions for use.

I am unsure of the interpretation of the results. What should I do?

If you cannot clearly determine the result of the test, contact the nearest medical facility applying the regulations of your local authority.

My result is positive. What should I do?

If a horizontal colored line is visible in the control area (C) as well as in the test area (T), your result is positive and you should immediately contact the medical facility in accordance with the requirements of your local authorities. Your test result may be checked and the next steps will be explained to you.

My result is negative. What should I do?

If only a horizontal colored line is visible in the control area (C), this may mean that you are negative or that the viral load is too low to be recognized by the test. If you experience symptoms such as headaches, migraines, fever, loss of sense of smell and taste, contact the nearest medical facility applying the regulations of your local authority. In addition, you can repeat the test with a new test kind.

Can this test cassette be reused or used by multiple people?

This test cassette is for one-time use and cannot be reused or used by multiple people.

MODEL NUMBER

Model A

SPECIFICATIONS

1T/kit, 5T/kit, 20T/kit, 25T/kit, 40T/kit, 50T/kit,

INTENDED USE

This kit is used for in vitro qualitative determination of SARS-CoV-2 antigens in human anterior nasal swab samples. It can be used for rapid investigation of suspected COVID-19 cases, and can also be used as a reconfirmation method for nucleic acid detection in discharged cases.

A positive test result indicates that the sample contains SARS-CoV-2 antigen. A negative test result does not rule out the possibility of infection.

This kit is for home use by laymen in a non-laboratory setting (such as person's home or certain non-traditional sites such as offices, sporting events, airports, schools etc.). The test featlts of this kit are for clinical reference only. It is recommended to conduct a comprehensive analysis of the condition based on

the patient's clinical manifestations and other laboratory tests.

COMPONENTS

- 1. SARS-CoV-2 Antigen Test Cassette
- 2. Sample extraction buffer
- 3. Disposable virus sampling swab
- 4. Biohazard specimen bag

Note: Components of different batches cannot be mixed.

SPECIMEN REQUIREMENTS

1. Sample collection



- Gently insert the entire soft tip of the swab into one nostril for 1.5cm until you feel a bit of resistance.
- Using medium pressure, rub the swab slowly in a circular motion around the inside wall of your nostril 4 times for a total time of 15 seconds.
- Repeat the same process with the same swab in the other nostril.

2. Sample treatment



The swab after sampling is soaked below the liquid level of the sample extraction buffer. Rotate and press 3 times. The swab soaking time is not less than 15 seconds.



- The swab head is pressed, then take out the swab and tighten the sampling tube.
- 3. Sample preservation: The treated sample should be tested within 1h.

TEST PROCEDURE



Place the test cassette, sample extraction buffer at room temperature for 15^30 minutes, and equilibrate to room temperature (10^30 $^{\circ}\mathrm{C}$).



 Open the aluminum foil pouch of the test cassette, place the test cassette on a flat surface.



- Add 4 drops of the treated sample into the sample well of the test cassette. (In case of chromatographic abnormalities, add an extra of 1–2 drops of the treated sample accordingly). Incubate at 10–30°C for 15 minutes
- Observe the results after Incubating at 10~30℃ for 15 minutes. The result



obtained after 30 minutes is invalid.

DISPOSAL THE SAMPLE AND CLEAN-UP



 Place the test cassette, sample extraction buffer and disposable virus sampling swab in the biohazard specimen bag and seal the bag



Throw away the remaining sample kit items.



Re-apply hand sanitizer.

INTERPRETATION OF RESULT

Positive: Two color bands appear in the observation window, that is, a red or magenta line appears at the position of the quality control line (C line) and the detection line (T line) (as shown in result 1), indicating the test result of SARS-CoV-2 antigens in the sample is positive.

Negative: A red or magenta line appears at the position of the quality control line (C line) in the observation window, and no line appears at the position of the test line (T line) (as shown in the result 2), indicating the test result of the SABS-COV-2 antigens in the sample is negative or the concentration is below the limit of detection of the kit.

Invalid: No line appears in the position of the quality control line (line C) in the observation window (as shown in result 3), indicating that the test is invalid, and the sample should be recollect and retested.



СТ



Result 1: Positive

Result 2: Negative Result .

Result 3: Invalid

PRINCIPLE OF THE ASSAY

This kit is based on the colloidal gold immunochromatographic technology, and uses the double antibody sandwich method to detect N protein of SARS-COV-2 antigen in human anterior nasal swab samples. The detection line (T line) of the SARS-COV-2 antigen test cassette was coated with SARS-COV-2 antibody, and the quality control line (C line) was coated with sheep anti-mouse antibody. During the test, the sample is dropped into the test cassette and the liquid is chromatographed upward under the capillary effect. The SARS-COV-2 antigen in the sample first binds to the colloidal gold-labelled SARS-COV-2 antibody to form a solid phase SARS-COV-2 antibody-colloidal gold complex at the T line position, and form a solid phase sheep anti-mouse-labelled SARS-COV-2 antibody-colloidal gold complex was formed at the C line position. After the test is completed, observe the colloidal





gold color reaction of T line and C line to determine results of SARS-CoV-2 antigen in human anterior nasal swab samples.

STORAGE AND SHELF LIFE

- 1. The kit should be stored at 4~ 30°C, the shelf life is set for 18 months.
- 2. After the foil bag is opened, it should be used within 30 minutes (temperature $10^{\circ}30^{\circ}$ C, humidity \leq 70%).
- 3. The sample extraction buffer should be used within 18 months after opening (temperature $10^{\sim}30^{\circ}C$, humidity \leq 70%).

See label for manufacture date and expiration date.

LIMITATIONS

- The test result of this kit is not the only confirmation indicator of clinical indications. The infection should be confirmed by a specialist along with other laboratory results, clinical symptoms, epidemiology, and additional clinical data.
- In the early stages of infection, low levels of antigen expression can result in negative results.
- The sample test results are related to the quality of sample collection, processing, transportation and storage. Any errors may lead to inaccurate results. If cross-contamination is not controlled during sample processing, false positive results may occur.

PERFORMANCE CHARACTERISTICS

1. Limit of Detection (LoD)

Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) has been confirmed can detect SARS-CoV-2 at $2.5 \times 10^{2.2}$ TCIDs₀/mL, which was collected from a confirmed COVID-19 patient in China.

2. Study on Exogenous/Endogenous Interference Substances:

The potential interfering substances listed below do not interfere.

) Exogenous factor

,±,	LAUGETTOUS TUCTOT		
No.	Exogenous factor	Interfering substances	Test conc.
1	Nasal sprays	Phenylephrine	128µg/mL
2	or drops	Oxymetazoline	128μg/mL
3		Saline Nasal Spray 10%	10%(v/v)
4		Dexamethasone	2μg/mL
5	Nasal corticosteroids	Flunisolide	0.2μg/mL
6	Corticosteroias	Triamcinolone acetonide	0.2μg/mL
7	1	Mometasone	0.5μg/mL
8	Throat lozenges	Strepsils (flurbiprofen 8.75mg)	5% (w/v, 50mg/mL)
9	1	Throat candy	5% (w/v, 50mg/mL)
10	Oral anaesthetic	Anbesol (Benzocaine 20%)	5% (v/v)
11		α-Interferon-2b	0.01μg/mL
12		Zanamivir (Influenza)	2μg/mL
13	1	Ribavirin (HCV)	0.2μg/mL
14	Anti-viral drugs	Oseltamivir (Influenza)	2μg/mL
15	Anti-viral drugs	Peramivir(Influenza)	60μg/mL
16	1	Lopinavir(HIV)	80μg/mL
17	1	Ritonavir(HIV)	20μg/mL
18	1	Arbidol((Influenza)	40μg/mL
19		Levofloxacin Tablets	40μg/mL
20	Antibiotic	Azithromycin	200μg/mL
21	AIILIDIOLIC	Ceftriaxone	800μg/mL
22	1	Meropenem	100μg/mL
23	Antibacterial, systemic	Tobramycin	128µg/mL
24	Other	Mucin: bovine submaxillary gland, type	100 μg/mL
25		Biotin	100 μg/mL

(2	(2) Endogenous factor					
	No.	Endogenous factor	Interfering substances	Test conc.		
	1	Autoimmune II disease	Human anti-mouse antibody, HAMA	800 ng/mL		

2	Serum protein	Whole Blood (human), EDTA anticoagulated	10% (w/w)
Cross-Reactivity & Microbial interference:			

There is no cross-reaction and no interference with the potentially cross-reactive microorganisms listed below.

No.	Crossing reacting	Strain	Concentration of cross
	substance		reacting substance
1		HKU1	2 × 10 ⁵ TCID ₅₀ /mL
2	Human	229E	2 × 10 ⁵ TCID ₅₀ /mL
3	Coronavirus	OC43	2 × 10 ⁵ TCID ₅₀ /mL
4		NL63	2 × 10 ⁵ TCID ₅₀ /mL
5		SARS	2 × 10 ⁵ TCID ₅₀ /mL
6		MERS	2 × 10 ⁵ TCID ₅₀ /mL
7		Type 1	2 × 10 ⁵ TCID ₅₀ /mL
8		Type 2	2 × 10 ⁵ TCID ₅₀ /mL
9		Type 3	2 × 10 ⁵ TCID ₅₀ /mL
10	Adenovirus	Type 4	2 × 10 ⁵ TCID ₅₀ /mL
11		Type 5	2 × 10 ⁵ TCID ₅₀ /mL
12		Type 7	2 × 10 ⁵ TCID ₅₀ /mL
13		Type 55	2 × 10 ⁵ TCID ₅₀ /mL
14	Human Metapneumovirus	hMPV 3 Type B1 / Peru2-2002	2 × 10 ⁵ TCID ₅₀ /mL
15	(hMPV)	hMPV 16 Type A1 / IA10-2003	2 × 10 ⁵ TCID ₅₀ /mL
16		Type 1	2 × 10 ⁵ TCID ₅₀ /mL
17		Type 2	2 × 10 ⁵ TCID ₅₀ /mL
18	Parainfluenza virus	Type 3	2 × 10 ⁵ TCID ₅₀ /mL
19		Type 4A	2 × 10 ⁵ TCID ₅₀ /mL
20		H1N1	2 × 10 ⁵ TCID ₅₀ /mL
21		H3N2	2 × 10 ⁵ TCID ₅₀ /mL
22	Influenza A	H5N1	2 × 10 TCID ₅₀ /mL
_			
23		H7N9	2 × 10 ⁵ TCID ₅₀ /mL
24	Influenza B	Yamagata	2 × 10 ⁵ TCID ₅₀ /mL
25		Victoria	2 × 10 ⁵ TCID ₅₀ /mL
26	Enterovirus	Type 68	2 × 10 ⁵ TCID ₅₀ /mL
27		09/2014 isolate 4	2 × 10 ⁵ TCID ₅₀ /mL
28	Respiratory	Type A	2 × 10 ⁵ TCID ₅₀ /mL
29	syncytial virus	Type B	2 × 10 ⁵ TCID ₅₀ /mL
30	Obiesiese	A16	2 × 10 ⁵ TCID ₅₀ /mL
31	Rhinovirus	Type B42	2 × 10 ⁵ TCID ₅₀ /mL
32	Chlamydia pneumoniae	TWAR strain TW-183	5 × 10 ⁶ CFU/mL
33	Haemophilus influenzae	NCTC 4560	5 × 10 ⁶ CFU/mL
34		Bloomington-2	5 × 10 ⁶ CFU/mL
35	Legionella pneumophila	Los Angeles-1	5 × 10 ⁶ CFU/mL
36	priediliopilia	82A3105	5 × 10 ⁶ CFU/mL
37		K	5 × 106 CFU/mL
38		Erdman	5 × 10 ⁶ CFU/mL
39	Mycobacterium	HN878	5 × 10 ⁶ CFU/mL
40	tuberculosis	CDC1551	5 × 10 ⁶ CFU/mL
41		H37Rv	5 × 10 ⁶ CFU/mL
42		4752-98 [Maryland (D1)6B-17]	5 × 10 ⁶ CFU/mL
43	Streptococcus	178 [Poland 23F-16]	5 × 10 ⁶ CFU/mL
44	pneumonia	262 [CIP 104340]	5 × 10 ⁶ CFU/mL
45		Slovakia 14-10 [29055]	5 × 10 ⁶ CFU/mL
		Typing strain T1 [NCIB	
46	Streptococcus pyrogens	11841, SF 130]	5 × 10 ⁶ CFU/mL
46			5 × 10 ⁶ CFU/mL 5 × 10 ⁶ CFU/mL

49	pneumoniae	FH strain of Eaton Agent [NCTC 10119]	5 × 10 ⁶ CFU/mL
50		M129-B7	5 × 10 ⁶ CFU/mL
51	Pneumocystis jirovecii (PJP)	N/A	N/A
52	Pooled human nasal wash	N/A	N/A
53	Candida albicans	3147	5 × 10 ⁶ CFU/mL
54	Pseudomonas aeruginosa	R. Hugh 813	5 × 10 ⁶ CFU/mL
55	Staphylococcus epidermidis	FDA strain PCI 1200	5 × 10 ⁶ CFU/mL
56	Streptococcus salivarius	S21B [IFO 13956]	5 × 10 ⁶ CFU/mL

Hook Effect:

There is no hook effect at $1.0\times10^{6.2}$ TCID $_{50}$ /mL of SARS-CoV-2 isolated from a SARS-CoV-2 confirmed patient in China.

Clinical Performance:

Clinical performance of Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) has been determined by testing 108 positive and 115 negative specimens for SARS-CoV-2 antigen (Ag). The sensitivity is 96.30% (195% CI: 90.79-98.98%), and the specificity is 99.13% (95% CI: 95.25-99.98%).

3370 Cl. 30.73-30.3670	ij, anu uie s	pecilicity is 3	5.13/0 (53/0 CI	. 55.25-55.56/6].
			PCR Test Res	ults
		Positive	Negative	Total
Novel Coronavirus 2	Positive	104	1	105
019-nCoV Antigen Tes	Negative	4	114	118
t (Colloidal Gold) Res ults	Total	108	115	223
		Sensitivity	Specificity	Overall Percentage Agreement
		96.30% [90.79%;98. 98%]	99.13% [95.25%;99,98 %]	97.76% [94.85%;99.27%]

PRECAUTIONS

- This kit is for in vitro diagnostic use only. Please read this instruction carefully before the test.
- Please use the swab and sample extraction buffer provided in this kit, and do not replace the sample extract in this kit with components in other kits.
- 3. Operations should strictly follow the instructions.
- 4. Positive and negative predictive values are highly dependent on the prevalence. When the prevalence of the disease is low and SARS-CoV-2 has little/no activity, a positive test results is more likely to represent a false positive result; when the prevalence of the disease is high, false negative test results are more likely.
- Compared with a RT-PCR SARS-CoV-2 assay, this test is less sensitive when used to detect patient samples within the first five days of the onset of symptoms.
- The test cassette must be used within 30 minutes after opening (temperature 10°30°C, humidity ≤70%), it should be used immediately after opening at 30°C, and the unused test cassette must be sealed and dryly stored.
- Waste or excess samples produced during testing should be inactivated according to regulations on infectious agents.

EXPLANATION FOR IDENTIFICATION

><	Use by date	LOT	Batch	[]i	Consult Instruction for use
∇	Content Sufficient For <n> Tests</n>	X	Temperature limitation	REF	Catalog Number
W	Manufacturi ng date	\triangle	Caution	(2)	Do not reuse





C€	CE Marking – IVDD 98/79/EC	EG REP	Authorized representativ e in the European Community	"	Manufactur er
IVD	For In Vitro Diagnostic Use	淤	Keep away from sunlight	*	Keep dry
25	For self-testing	/	/	/	/



Beijing Hotgen Biotech Co., Ltd. 9th Building, No. 9 Tianfu Street, Biomedical Base, Daxing District, Beijing, 102600, P.R. China.



MedNet GmbH Borkstrasse 10, 48163 Muenster, Germany





APPROVAL DATE AND REVISION DATE OF THE INSTRUCTION

Approved on February, 2021;

Version number: V. 2021-02.01[Eng.]

Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) Product Photos







抗原胶体金检测试剂包装信息

Novel Coronavirus 2019-nCoV Antigen Test(Colloidal Gold) Packing Information

产品名称	规格/盒	单位	单位包装毛重
Product name	Specifications	Unit	Gross weight per
			unit package
Novel Coronavirus	1T	盒/kit	0.0359 kg/盒
2019-nCoV Antigen			0.0359 kg / kit
Test (Colloidal Gold)			

抗原胶体金试剂盒出口包装箱							
	Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)						
				Export Packi	ng Cartons		
包装箱/	长	宽	高	每箱装盒	单盒试剂	整箱净重	抛重
盒	length	Width	height	数 量 Kit	净重	Net	Throwing
Packing	cm	cm	cm	quantity	Net weight of	weight of	weight
Carton/				per carton	single kit	the whole	
box						carton	
纸箱	71	40	39	320盒	0.0359 公斤	11.488公斤	18.5-19公斤
carton				320kits	0.0359 kg	11.488 kg	18.5-19 kg

Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) Clinical Study Report

Subject Product: Novel Coronavirus 2019-nCoV Antigen Test

(Colloidal Gold)

Test start time: Oct.10 th, 2020

Test completion time: Feb. 03th, 2021

Model specifications: 40T/kit

Submitted by: Beijing Hotgen Biotech Co., Ltd.

Beijing Hotgen Biotech Co., Ltd.

Summary of Research Report

Clinical trial sponsor	Beijing Hotgen Biotech Co., Ltd.
Clinical trial name	Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)
Clinical trial facility	The Key laboratory of Biological Emergency and Clinical POCT (Beijing)
Purpose of clinical trials	The purpose of this study was to investigate the self-test performance of "Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)" produced by Beijing Hotgen Biotech Co., Ltd. to detect novel coronavirus (2019-nCoV) antigen in human anterior nasal swab specimens.
Clinical trial methods	The subject product of this study is "Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)" (hereinafter referred to as "Antigen Test") produced by Beijing Hotgen Biotech Co., Ltd. The product selected for the comparison is RT-PCR Kit. Results of the Antigen Test and RT-PCR Test are compared to evaluate the consistency between the Antigen Test and RT-PCR Test. Cases with different test results were comprehensively analyzed by combining the patients' epidemiological background, clinical symptoms, disease outcome, and other information. In this way, the performance of the Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) (produced by Beijing Hotgen Biotech Co., Ltd) to detect the novel coronavirus (2019-nCoV) antigen in human anterior nasal swab specimens was evaluated. The specimens collection and testing for antigen test were conducted by individuals in non-healthcare settings while the collection and testing of the specimens for RT-PCT were accomplished by the investigators. The anterior nasal swab specimens used for antigen test were prospectively collected. Patients were sequentially and randomly enrolled .All collected specimens can be traced back to the corresponding clinical information, including case number, age, gender, type of specimens, collection time, confirmation or exclusion of the novel coronavirus infection, and the RT-PCR Test results for disease diagnosis.
Test kit name,	Name: Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)
specifications	Specification: 40 Tests/Kit;
Sample size	This study enrolled a total of 223 human anterior nasal swab specimens, of which 108 were positives for RT-PCR Test, 115 negatives for RT-PCR Test; As for data collection of the corresponding RT-PCR Test results.
Judgment method	Visual observation
Evaluation method	(1) The total coincidence rate of the diagnosis results of the assessment system and the reference system is greater than 80%.(2) The Kappa value of the consistency between the diagnostic results of the assessment system and the reference system is greater than 0.75.
Results and conclusions	1. The sensitivity, spesitivity, and accuracy of the diagnostic results of the assessment system and the reference system are: Human anterior nares swab specimens, 96.30%, 99.13%, and 97.76%

		Nucleic Acid Test results		_ Total
		Positive (+)	Negative (-)	Total
	Positive (+)	104	1	105
Antigen Test	Negative (-)	4	114	118
Total		108	115	223

Sensitivity: 96.30% (90.79%~98.98%) Specificity: 99.13% (95.25%~99.98%) Accuracy: 97.76% (94.85%~99.27%)

2. The consistency coefficient Kappa result of the diagnostic results between the assessment system and the reference system is below:

Human anterior nares swab specimens: Kappa (K) =0.9551;

In summary, individuals self-test in non-healthcare settings by using the Antigen Test kit, the Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) produced by Beijing Hotgen Biotech Co., Ltd. to detect human anterior nasal swab specimens, the results showed excellent agreement with the RT-PCR Test results. The comparison test results of human anterior nasal swab specimens are highly consistent. Therefore, the Antigen Test kit has a good self-test performance.

Verification unit:

The Key aboratory of Biological Emergency and Clinical POCT (Beijing) 北京市重点实验室 Feb.03th, 2021

Note: The Key laboratory of Biological Emergency and Clinical POCT (Beijing) was jointly declared by Beijing Hotgen Biotech Co.,Ltd and institute of Microbiology of the Academy of Military Medical Sciences. It was announced on the website of the Beijing Municipal science & Technnology Commission on May 30, 2014.

Sensitivity verification of Novel Coronavirus 2019-nCoV

Antigen Test (Colloidal Gold)

Purpose

Use inactivated new coronavirus to evaluate the sensitivity of Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)

Experimental Materials

1. 1 batch of colloidal gold test paper;

2. Inactivated virus: 105 pfu/mL.

Experimental steps

Sample: Mixing ratio of sample diluent

Concentration	Virus content in sample	Sample: Mixing ratio of sample
number	(pfu/mL)	diluent
1	0	1: 9
2	10 ²	1: 9
3	2.5×10^{2}	1: 9
4	5×10 ²	1: 9
5	103	1: 9
6	104	1: 9

- 1. After mixing the sample and diluent, incubate at room temperature for 1 min.
- 2. Take 100µL of sample and observe the result after 15min reaction.

Test results

Concentration	Virus content in	Sample: Mixing ratio of	Result
number	sample (pfu/mL)	sample diluent	
1	0	1: 9	
2	102	1: 9	±
3	2.5×10^{2}	1: 9	+
4	5×10^{2}	1: 9	+
5	10^{3}	1: 9	++
6	104	1: 9	+++

In conclusion

Colloidal gold experiment results: 10² pfu/mL has a shallow band, negative without background, the sensitivity is 2.5×10² pfu/mL.

The Key laboratory of Biological Emergency

and Clinical POCT (Beijing)

Aug.17th,2020





page 1 of 3 Pages

空运货物运输条件识别报告书 Certificate for Safe Transport of Air Cargo



证书编号:

BN2009720700750002

物品名称:

新型冠状病毒(2019nCoV)抗原检测试剂盒(胶体金

洪.

Name of Goods:

NOVEL CORONAVIRUS 2019-nCoV ANTIGEN TEST

(COLLOIDAL GOLD)

签发日期:

2020-09-23

委托单位:

北京热景生物技术股份有限公司

Applicant:

北京信诺递捷运输咨询有限公司

SINO-Dangerous Goods Transportation Consultant Ltd.

电话: 010-64589142

网 址: www.chinasdg.cn

传真: 010-64580462

E-mail: public@chinasdg.cn

地址:北京市顺义区北京空港物流基地物流园八街九号林吉大厦B505室

邮编: 101300

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Certificate

No. Q5 089675 0005 Rev. 01

Holder of Certificate:

Beijing Hotgen Biotech Co.,Ltd

9th Building, No. 9 Tianfu Street, Biomedical Base

Daxing District 102600 Beiling

PEOPLE'S REPUBLIC OF CHINA

Facility(ies):

Beijing Hotgen Biotech Co.,Ltd

9th Building, No. 9 Tianfu Street, Biomedical Base, Daxing District,

102600 Beijing, PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate:

Design and Development, Production, Distribution and Service of Automated Immunoassay Analyzer, Up-converting Phosphor Immunoassay Analyzer, Up converting Phosphor Technology Test Kits, Colloidal Gold Test Kits, Chemiluminescence Immunoassay Test Kits, Enzyme-Linked Immunoassay Test Kits.

Applied Standard

EN ISO 13485:2016

Medical devices - Quality management systems -

Requirements for regulatory purposes

(ISO 13485:2016)

DIN EN ISO 13485:2016

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2023-12-04

Date,

2020-09-01

Head of Certification/Notified Body

Page 1 of 1

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备案登记表编号: 01716790

统一社会信用代码: 进出口企业代码:

经营者中文名称	北京热景生物技术股份有限公司				
经营者英文名称	Beijing Hotgen Biotech Co.,Ltd.				
组织机构代码	全营者类型 (由备案登记机关填写) 股份有限公司				
第 所	北京市大兴区中关村科技园区大兴生物医药产业基地天富 街9号9幢				
经营场所 (中文)	北京市大兴区中关村科技园区大兴生物医药产业基地天富街9号9幢				
经营场所(英文)	9th Bullding, No.9 Tianfu St. Biomedical Base Daxing District Beijing, China				
联系电话	010-56528860 联系传真 010-56528861				
邮政编码	102600 li.han@hotgen.com.cn				
工商登记注册日期	2005-6-23				

 企业法定代表人姓名	林长青 有效证件号 3522021976	509261014
 注册资金	肆任位百万 元	(折美元)

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年⁰⁷ 月²⁹

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企业名称: 北京热景生物技术股份有限公司

生产地址:

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法定代表人: 林长青

生产范围:

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法定代表

林长营

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揺 器 2005年06月23日至 大越

光区中关村科技园区大兴生物医药产业

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