



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.

CCCM HE	中国医药	保健品进	出口商会				English (#9%)	入关键词进行搜索 Q
西贝	关于商会。	新阿中心。	行业服务 。	权威发布 -	商会会刊 -	企业风采	会员之家。	55 加入指金
8690P-0 > 1	即公告							
10	北京热景生物技	术股份有限公	司		9111011	5777090586H	ı	欧盟CE
	Beijing Hotgen bio	otech Co., Ltd.						



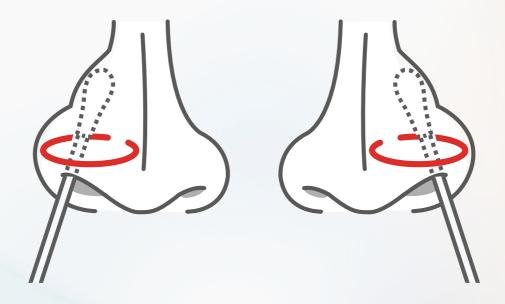
Email: sales@hotgen.com.cn Website: www.hotgen.com.cn

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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 you feel a bit of resistance.

Using medium pressure, rub the swab slowly in a circular motion around the total time of 15 seconds.

same swab in the other nostril.





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

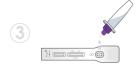




at room temperature for 15~30 minutes, and



Open the aluminum foil pouch of the test cassette, place the test cassette on



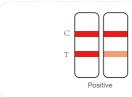
Add 4 drops of the treated sample into the sample well of the test cassette. (In case of chromatographic abnormalities, extra add 1~2 drops of the treated sample accordingly.) Incubate at 10~30 °C for 15 minutes.





Observe the results after Incubate at 10~30 $^{\circ}$ 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℃

Beijing Hotgen Biotech Co.,Ltd

Add.: 9 building, No.9 Tianfu Street, Daxing District, Beijing, 102600, P.R. China

Website: www.hotgen.com.cn

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

Signature: Lin Chang

Name:

Lin Changging

Title:

General manager

Place: Beijing, China.

Date of Issue: Aug 27, 2020

CE

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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

Zus	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		
	Straße, Haus-Nr. / Street, house no. Domplatz 36			
	Telefon / Phone +49-251-4110	Telefax / Fax +49-251-4112525		
	E-Mail / E-mail mitteilungen-dimdi@brms.nrw.de			

Registrierdatum bei der zuständigen Behörde Registration date at competent authority	Registriernummer / Registration number DE/CA22/419-1848.1-IVD
25.01.2021	
Typ der Anzeige / Notification type	
Erstanzeige / Initial notification	
Änderungsanzeige / Notification of change	
Widerrufsanzeige / Notification of withdrawal	
Frühere Registriernummer bei Änderungs- und Widerru Previous registration number if notification has been ch DE/CA22/419-1848-IVD	<u> </u>
Anzeigender nach § 25 MPG / Reporter pursuant to § 2	25 Medical Devices Act, MPG
Hersteller / Manufacturer	
Bevollmächtigter / Authorised Representative	
Einführer / Importer	
Vorantwortlicher für das Zusammensetzen von Syst	emen oder Behandlungseinheiten nach § 10 Abs. 1 u
verantworthcher für das Zusammensetzen von Syst	
MPG \ Assembler of systems or procedure packs pursu	lant to § 10 (1) and (2) Medical Devices Act, MPG
1	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

Anzeigender / Reporting organisation (person)			
	Code DE/0000012115		
	Bezeichnung / Name MedNet GmbH		
	Staat / State Deutschland	Land / Federal state Nordrhein-Westfalen	
	Ort / City Muenster	Postleitzahl / Postal code 48163	
	Straße, Haus-Nr. / Street, house no. Borkstrasse 10		
	Telefon / Phone +49-251-32266-0	Telefax / Fax +49-251-32266-22	
	E-Mail / E-mail ear-admin@medneteurope.com		

Her	steller / Manufacturer			
	Bezeichnung / Name Beijing Hotgen Biotech Co., Ltd.			
	Staat / State CN			
	Ort / City Beijing		Postleitzahl / Postal code 102600	
	Straße, Haus-Nr. / Street, house no. 9th Building, No. 9 Tianfu Street, Biomedical Base	, Dax	ing District	
	Telefon / Phone 0086-10-50973600		Telefax / Fax	
	E-Mail / E-mail			

Sicherheitsbeauftragter für Medizinprodukte r Safety officer for medical devices pursuant to	nach § 30 Abs. 2 MPG 9) § 30 (2) Medical Devices Act, MPG			
Bezeichnung / Name Nicole Böhnisch	· · · · · · · · · · · · · · · · · · ·			
Staat / State Deutschland	Land / Federal state Nordrhein-Westfalen			
Ort / City MÜNSTER	Postleitzahl / Postal code 48163			
Straße, Haus-Nr. / Street, house no. Borkstrasse 10				
Telefon / Phone +49-251-32266-0	Telefax / Fax +49-251-32266-22			
E-Mail / E-mail info@medneteurope.com				

Bezeichnung / Name Kristin Zurlinden		
Telefon / Phone +49 251 32266 0	Telefax / Fax +49 251 32266 22	
E-Mail / E-mail info@medneteurope.com		

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 Sonstiges Produkt / Other device (all devices except Annex II and self-testing devices)
App (Software auf mobilen Endgeräten) ja / yes nein / no
Anzeige nach § 25 Abs. 3 Nummer 3 MPG Notification pursuant to § 25 (3) number 3 Medical Devices Act, MPG "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 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.

Zu:	sätzliche Angaben im Falle der In-vitro-Diagı Jenanwendung / Addtional information for A	nostika gen nnex II and	näß Anhar self-testir	ng II und der In-vitro-Diagnostika zur ng in vitro diagnostic medical devices		
	Nummer(n) der Bescheinigung(en) / Certificate	e number(s)	1			
	In Übereinstimmung mit den Gemeinsamen Technischen Spezifikationen (für Produkte gem. Anhang II, Liste A) In conformity with Common Technical Specifications (for Annex II List A devices)					
	Ergebnisse der Leistungsbewertung Outcome of performance evaluation					
Ich v	ersichere, dass die Angaben nach bestem Wiss m that the information given above is correct to	sen und Gev the best of	wissen gen my knowle	nacht wurden. dge.		
Ort City	Münster	Dat Dat	tum te	2021-01-15		
		Na	me 	Nicole Böhnisch		
				Unterschrift Signature		
	arbeitungsvermerke / Processing notes r von der zuständigen Behörde auszufüllen / To	be filled in	only by the	competent authority		
	Bearbeiter / Person responsible Frau Silvia Wenge		Telefon 0251-41	/ Phone 15936		

Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold)

Instructions for Use

FREQUENTLY ASKED QUESTIONS

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

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

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

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

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

- What should I do if I took the test but didn't see a control line?
- a new test kit according to the instructions for use.
 I am unsure of the interpretation of the results. What should I do? In this case, the test result is to be considered invalid. Please repeat the test with

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?

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

My result is negative. What should I do?

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

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

MODEL NUMBER

SPECIFICATIONS

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

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

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

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

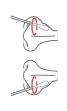
the patient's clinical manifestations and other laboratory tests.

- SARS-CoV-2 Antigen Test Cassette
- Sample extraction buffer
- 3. Disposable virus sampling swab

Note: Components of different batches cannot be mixed Biohazard specimen bag

SPECIMEN REQUIREMENTS

Sample collection



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

2. Sample treatment



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



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

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 temperature (10 $^{\sim}$ 30 $^{\circ}$ C). minutes, and equilibrate to room

(<u></u>) 15-30min 10~30℃

۲.



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



10~30° Observe the results after Incubating at φ 15 minutes. The result

15

obtained after 30 minutes is invalid.

DISPOSAL THE SAMPLE AND CLEAN-UP



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



Throw away the remaining sample kit items.



Re-apply hand sanitizer.

INTERPRETATION OF RESULT

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

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

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









Result 2: Negative Result 3: Invalid

PRINCIPLE OF THE ASSAY

Result 1: Positive

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

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

STORAGE AND SHELF LIFE

- 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 10~30°C, humidity ≤70%).
- 3. The sample extraction buffer should be used within 18 months after opening (temperature 10~30°C, humidity ≤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
- 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 false positive results may occur. results. If cross-contamination is not controlled during sample processing,

PERFORMANCE CHARACTERISTICS

Limit of Detection (LoD)

confirmed COVID-19 patient in China. can detect SARS-CoV-2 at 2.5 imes 10 $^{2.2}$ TCID $_{50}/$ mL, which was collected from a Novel Coronavirus 2019-nCoV Antigen Test (Colloidal Gold) has been confirmed

Study on Exogenous/Endogenous Interference Substances

The potential interfering substances listed below do not interfere.

Exogenous factor	into the state of the tax and	Total
Nasal sprays	Phenylephrine	128μg/mL
or drops	Oxymetazoline	128µg/mL
	Saline Nasal Spray 10%	10%(v/v)
	Dexamethasone	2μg/mL
Nasal	Flunisolide	0.2µg/mL
corricosteroido	Triamcinolone acetonide	0.2µg/mL
	Mometasone	0.5µg/mL
	Strepsils (flurbiprofen	5% (m/v 50mg/ml)
Throat lozenges	8.75mg)	3/0 (W/v, 301118/111L)
	Throat candy	5% (w/v, 50mg/mL)
Oral anaesthetic	Anbesol	5%(v/v)
	(Benzocaine 20%)	1 1 1 1 1 1 1
<u> </u>	α-Interferon-2b	0.01µg/mL
	Zanamivir (Influenza)	2µg/mL
	Ribavirin (HCV)	0.2µg/mL
Anti-viral drugs	Oseltamivir (Influenza)	2µg/mL
	Peramivir(Influenza)	60µg/mL
	Lopinavir(HIV)	80µg/mL
<u> </u>	Ritonavir(HIV)	20μg/mL
	Arbidol((Influenza)	40μg/mL
	Levofloxacin Tablets	40μg/mL
Antihiotic	Azithromycin	200μg/mL
211100010	Ceftriaxone	800µg/mL
	Meropenem	100µg/mL
Antibacterial,	Tobramycin	128µg/mL
	Mucin: bovine submaxillary	400
Other	gland, type	100 μg/mL
	Biotin	100 μg/mL
Endogenous factor		
Endogenous factor	Interfering substances	Test conc.
Autoimmune	Human anti-mouse antibody,	800 ng/mL
disease	НАМА	0000

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24 23

2 Serum protein Whole Blood (human), EDTA 1				,
_		anticoagulated	oci am process	,
		Whole Blood (human), EDTA	Serum protein	,

Cross-Reactivity & Microbial interference:

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

48	47	46	45	44	43	42	41	40	39	38	37	36	34	33	32	31	30	29	28	27	36	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	σ.	4 4	2	1	No.	nicroorga
Mycopiasma	Bordetela pertussis	Streptococcus pyrogens		•	Streptococcus pneumonia			•	tuberculosis	Acceptation		pneumophila	Legionella	Haemophilus influenzae	Chlamydia pneumoniae	NIIIIOVII US	Phipodirus	syncytial virus	Respiratory	Enterovirus		Influenza B		2	Influenza A			Parainfluenza virus			(hMPV)	Human				Adenovirus						Coronavirus	Human		Crossing reacting substance	nicroorganisms listed below.
Mutant 22	NCCP 13671	Typing strain T1 [NCIB 11841, SF 130]	Slovakia 14-10 [29055]	262 [CIP 104340]	178 [Poland 23F-16]	4752-98 [Maryland (D1)6B-17]		CDC1551	HN878	Erdman	×	82A3105	Bloomington-2	NCTC 4560	TWAR strain TW-183	Type B42	A16	Туре В	Туре А	09/2014 isolate 4	Type 68	Victoria	HZN9	H5N1	H3N2	TNTH	Type 4A	Type 3	Туре 2	Type 1	hMPV 16 Type A1 / IA10-2003	hMPV 3 Type B1 / Peru2-2002	Type 55	Type 7	Type 5	Туре 4	Type 3	Туре 2	Type 1	MERS	SARS	NL63	229E	HKU1	Strain	
2 × 10-CF0/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10° CFU/mL	5 × 10° CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	5 × 10 ⁶ CFU/mL	2 × 10 ⁵ TCID ₅₀ /mL	2 × 10 TCID ₅₀ /ml	2 × 10° TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2×10 ⁵ TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2×10^5 TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2×10^5 TCID ₅₀ /mL	2 × 10 ⁵ TCID _{5Q} /mL	2 × 10 ⁵ TCID ₅₀ /mL	2×10^5 TCID ₅₀ /mL	$2 \times 10^5 TCID_{50}/mL$	2 × 10 ⁵ TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2×10^5 TCID ₅₀ /mL	2×10^5 TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	2 × 10° TCID ₅₀ /mL	2 × 10 ⁵ TCID ₅₀ /mL	Concentration of cross reacting substance									

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

Hook Effect:

SARS-CoV-2 confirmed patient in China. There is no hook effect at $1.0 imes 10^{62}$ TCID $_{50}/$ mL of SARS-CoV-2 isolated from a

Clinical Performance:

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

		t (Colloidal Gold) Res ults	019-nCoV Antigen Tes	Novel Coronavirus 2			The second second second second
		Total	Negative	Positive			
96.30% [90.79%;98. 98%]	Sensitivity	108	4	104	Positive		
99.13% [95.25%;99,98 %]	Specificity	115	114	1	Negative	PCR Test Results	
97.76% [94.85%;99.2 <i>7</i> %]	Overall Percentage Agreement	223	118	105	Total	ults	

PRECAUTIONS

- carefully before the test. This kit is for in vitro diagnostic use only. Please read this instruction
- do not replace the sample extract in this kit with components in other Please use the swab and sample extraction buffer provided in this kit, and
- Operations should strictly follow the instructions
- negative test results are more likely. false positive result; when the prevalence of the disease is high, false has little/no activity, a positive test results is more likely to represent a prevalence. When the prevalence of the disease is low and SARS-CoV-2 Positive and negative predictive values are highly dependent on the
- symptoms. used to detect patient samples within the first five days of the onset of

Compared with a RT-PCR SARS-CoV-2 assay, this test is less sensitive when

- after opening at 30 $^{\circ}\text{C}\textsc{,}$ and the unused test cassette must be sealed and (temperature 10 $^{\sim}$ 30 $^{\circ}$ C, humidity \leq 70%), it should be used immediately The test cassette must be used within 30 minutes after opening
- according to regulations on infectious agents Waste or excess samples produced during testing should be inactivated

EXPLANATION FOR IDENTIFICATION

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Content Sufficient For <n> Tests</n>	Use by date
¥	LOT
Temperature limitation	Batch
REF	
Catalog Number	Consult Instruction for use
	Temperature Inmitation REF





*	IVD	CE
For self-testing	For In Vitro Diagnostic Use	CE Marking – IVDD 98/79/EC
_	**	EC REP
,	Keep away from sunlight	Authorized representativ e in the European Community
,	Ť	
,	Keep dry	Manufactur er





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	Corona	virus 201	19-nCoV Ant Export Packi	igen Test (Colloida	al Gold)	
包装箱/ 盒 Packing Carton/ box	长 length cm	宽 Width cm	高 height cm	每箱装盒 数量 Kit quantity per carton	单盒试剂 净重 Net weight of single kit	整箱净重 Net weight of the whole carton	抛重 Throwing weight
纸箱 carton	71	40	39	320盒 320kits	0.0359 公斤 0.0359 kg	11.488公斤 11.488 kg	18.5-19公斤 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

	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
	(1) The total coincidence rate of the diagnosis results of the assessment
Evaluation method	system and the reference system is greater than 80%.
Dyaluation method	(2) The Kappa value of the consistency between the diagnostic results of the
	assessment system and the reference system is greater than 0.75.
D 14 1	1. The sensitivity, spesitivity, and accuracy of the diagnostic results of the
Results and	assessment system and the reference system are:
conclusions	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) 不可重点实验室 Feb.03th, 202

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 & Technology 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	103	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:

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物品名称:

新型冠状病毒(2019nCoV)抗原检测试剂盒(胶体金

法)

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 Beijing

PEOPLE'S REPUBLIC OF CHINA

Beijing Hotgen Biotech Co.,Ltd Facility(ies):

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

102600 Beijing, PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Scope of Certificate:

Design and Dexelopment, Production, Distribution and Service of Automated Immunoassay Analyzer, Up-spriverting 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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Date,

2020-09-01

Christoph Dicks

Head of Certification/Notified Body

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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: 1110115777090586Н

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	经营者类型 《由备案登记机关填写》			
住 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 9th Bullding,No.9 Tianfu St,Biomedical Base, Daxing District, Beijing, China			
经营场所 (英文)				
联系电话	010-56528860 联系传统 010-56528861			
邮政编码	102600 li.han@hotgen.com.cn			
工商登记注册白期	2005-6-23			

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年产 地址:

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

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2017版分类目录: ||类: ||-22-04免疫分析设备 ||类。||1622:15 检验及其他辅助设备***

发证部门

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股份有限公司(上市、自然人投资或控股)

北京热景生物技术股份有限公司

法定代表人

林长青

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