PRODUCT SPECIFICATION

Nitrile medical Gloves 3.5g (textured on half of finger)

SECTION	1: PRODUCT DESCRIPTION	
1.1	Туре	Nitrile medical Gloves Powder Free, Non-sterile
1.2	Material	1.Nitrile Polymers98%
		2.Others 2%
1.3	Color	Violet / blue
1.4	Design and Features	Ambidextrous, textured on half of finger, beaded cuff
15	Powder	No powder lubricant added
1.6	Storage Conditions	5°C-35°C
1.7	Shelf-life	5 years from the date of manufacture with the above storage conditions.
1.8	Packing Style	100 pcs gloves* 10 boxes * 1 carton

SECTION 2: PERFORMANCE SPECIFICATION

2.1. Dimensions

	X-SMALL	SMALL	MEDIUM	LARGE	X-LARGE	TOLERANCE
Length (mm)	240	240	240	240	240	±5
Width of palm (mm)	75	85	95	105	114	±3
Weight per pc (g)	2.9	3.2	3.5	3.8	4.1	±0.2
Thickness of finger tip (mm)	0.08	0.08	0.08	0.08	0.08	±0.0.3
Thickness of palm (mm)	0.07	0.07	0.07	0.07	0.07	±0.0.3
Thickness of cuff (mm)	0.06	0.06	0.06	0.06	0.06	±0.0.3

2.2. Physical Properties

.

Description	Standard			
Description	Before Aging	After Aging		
Elongation at Break (%)	≥ 500 %	≥ 400%		
Tensile Strength (MPa)	≥ 14 MPa	≥ 14 MPa		



Test Report No. 20218965983ZH dated 30 Apr 2023





Note: Note: This report is issued in accordance with the certification regulations of MB company and the general terms and conditions of business of MB private limited. In addition, this report is governed by the provisions set out in this report

SUBJECT

Testing of Gloves

CLIENT

Hebei Titans Hongsen Medical Technology Co.,Ltd

Eastern Industrial Zone, Nangong City, Xingtai City. Hebei Province, China

SAMPLE SUBMISSION DATE/ TEST DATE

16 Apr 2023 to 30 Apr 2023

DESCRIPTION OF SAMPLES

S/N	Product Description	Brand/ Model	Size	Colour	Lot No.	Expiry Date	Sample Received (pieces)	Manufacturer
1	Disposable Powder Free Nitrile Gloves (Blue)		S M L	Blue	20230316	20250315	100 100 100	Hebei Titans Hongse Medical Technology Co.,Ltd



China Regional Office: Changzhou Mubang Testing Technology Co., Ltd

Room 922, building 72, Xihu garden, No.2, Xihu Road,Wujin national high tech Industrial Development Zone TEL:0519-86380918 Email: Info@mbgls.com Sweden Regional office: MB Global Service AB Prastgatan 68, 111 29 Stockholm, Sweden

B



METHOD OF TEST

The tests were conducted in accordance with the following test standards:

BS EN ISO 21420:2020 Protective gloves - General requirements and test methods

- Clause 4.2c pH value
- Clause 5.1 Sizing and measurement of gloves
- Clause 5.2 Dexterity

RESULTS

Sample: Disposable Powder Free Nitrile Gloves, Blue

Test	BS EN ISO 21420:	Results		Inferred Results	
I. Determination of pH Value, pH value	> 3.5 and < 9.5 8.2			.2	Passed
			Size	Results	
n. Sizing, minimum length			S	245	(see remark 2)
of glove (mm)		-	М	245	(See remark 2)
			L	250	
	Level of performance	Smallest pin diameter fulfilling test conditions (mm)	Size	Results	
III. Dexterity,	1	11	9	5	(and romark 2)
performance	2	9.5	5	5	(See remark 3)
	3	8	N/L	5	
	4	6.5	IVI	5	
	5	5	Ĺ	5	

REMARKS

- 1. 3 sizes were mixed for pH value as the glove are made from same material.
- 2. Sizes of gloves are defined with respect to the sizes of the hands they are to fit. If required for specific use (for example, gloves for welders and firefighters), the minimum glove length shall be defined in the relevant specific standards.
- 3. For Dexterity test, a glove should allow as much dexterity as possible given its purpose.

Chen Nuo Associate Engineer



Test Report No. 20218965983ZH dated 30 Apr 2023

APPENDIX



Photo: Disposable Powder Free Nitrile Gloves,Blue



Please note that this Report is issued under the following terms :

- 1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that MB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that MB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to de termine long term effects of using the specific product/equipment.
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- 5. The tests carried out by MB and this report are subject to MB 's General Terms and Conditions of Business and the Testing and Certification Regulations of the MB Group
- 6. This test is only responsible for incoming samples.

Test Report No. 7191237186-EEC20/01-WBH dated 26 May 2020



Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

SUBJECT:

Testing of Gloves submitted by Hebei Titans Hongsen Medical Technology Co., Ltd on 30 Apr 2020.

TESTED FOR:

Hebei Titans Hongsen Medical Technology Co., Ltd Eastern Industrial Zone, Nangong City, Hebei Province, China

TEST DATE:

15 May 2020 to 26 May 2020

DESCRIPTION OF SAMPLES:

S/N	Product Description	Colour	Lot No.	Size	Sample received (pieces)	Manufacturer
1			2	S		
2	Disposable Nitrile	Plue	2020/04/18	М	5 boxes of	Hebei Titans Hongsen
3	Gloves	Diue	2020/04/18	L.	each size	Ltd
4				XL		



Laboratory: TÜV SÜD PSB Pte. Ltd. No.1 Science Park Drive Singapore 118221 Phone : +65-6885 1333 Fax : +65-6776 8670 E-mail: enquiries@tuv-sud-psb.sg www.tuv-sud-psb.sg Co. Reg : 199002667R

Regional Head Office: TÜV SÜD Asia Pacific Pte. Ltd. 1 Science Park Drive, #02-01 Singapore 118221



Add value.



METHOD OF TEST:

The tests were conducted in accordance with the following test standards:

EN ISO 374-1:2016 Protective gloves against dangerous chemicals and micro-organisms Part 1: Terminology and performance requirements for chemical risks

- Clause 5.1 General requirements (Test method described in EN 420:2003+A1:2009 Protective gloves – General requirements and test methods)
- Clause 5.2 Penetration (Test method described in EN 374-2:2014 Protective gloves against dangerous chemicals and microorganisms – Part 2: Determination of resistance to penetration)
- Clause 5.3 Degradation (Test method described in EN 374-4:2019 Protective gloves against chemicals and micro-organisms. Determination of resistance to degradation by chemicals)
- Clause 5.4 Permeation (Test method described in EN 16523-1:2015 Determination of material resistance to permeation by chemicals. Permeation by potentially hazardous liquid chemicals under conditions of continuous contact)
- Clause 6 Marking
- Clause 7 Information supplid by the manufacturer



RESULTS:

Table 1: Results for tests according to EN ISO 374-1:2016 Clause 5.1-5.4

Sample: Disposable Nitrile Gloves, Lot No. 2020/04/18

Clause	Tests	Specification		Inferred Result			
5.1 General Requirement		Protective gloves against dangerous chemicals shall	Refer to 420:200	Refer to Table 3 for results of EN 420:2009, Clause 4, Clause 5			
		comply with the requirements given in EN 420:2009, Clause 4, Clause 5 and Clause 7.	The sub packagi Clause as reque	omitted glove ng not tested 7 Marking ar ested by clie	e and d to EN 420 nd information nt.	Not tested	
				Size	-	-	
		Protective gloves shall not leak		S	No leakage for both tests	Complied	
5.2	Penetration	when tested according to EN 374-2:2014, 7.2 and 7.3.		М	No leakage for both tests	Complied	
		7.2 Air leak test 7.3 Water leak test		L	No leakage for both tests	Complied	
				XL No leakag		Complied	
			Degradation R		esults (%)		
				Glove 1	-35.0		
				Glove 2	-33.4		
				Glove 3	-31.3	NA	
			Sizes	Average	-33.2		
				Standard Deviation	1.8		
		CIII	N	Glove 1	-27.4		
		The degradation (DR) shall be	1.1	Glove 2	9.2		
		determined according to EN	Cizo M	Glove 3	1.1		
		3/4-4 for each chemical claimed	SIZE IVI	Average	-5.7	NA	
5.3	Degradation	Degradation marking and reported in the user		Standard Deviation	19.3		
		instruction.	91	Glove 1	-4.0		
		Tested Chemical: 40% Sodium	/	Glove 2	-31.4		
		Hydroxide	Size I	Glove 3	-31.0	NA	
			OIZC L	Average	-22.1		
				Standard Deviation	15.7		
				Glove 1	-15.9		
				Glove 2	-24.3		
			Size	Glove 3	-31.6		
			XL	Average	-23.9	INA	
				Standard Deviation	7.8		



RESULTS (cont'd):

Table 1: Results for tests according to ISO 374-1:2016 (cont'd)

Sample: Disposable Nitrile Gloves, Lot No. 2020/04/18

Clause	Tests	Specification	Result	S	Inferred Result
			Breakthroug (mins	h Time)	
			Glove 1	251	
			Glove 2	289	
			Glove 3	251	
	Permeation	Each combination of protective glove/test chemical shall be classified according to Table A (see remark 4), using the results as given in EN 16523-1:2015, 8.5.1.1 or 8.5.1.3 for the normalized breakthrough time. Tested Chemical: 40% Sodium Hydroxide	Mean Value	264	
5.4			Lowest Value	251	
			The breakthrough time occurred after 240 mins, the tested glove is classified as Level 5.		Complied
			No color change was observed on the glove test specimen after the test.		
			*The gloves palm area were taken randomly from any size of "S, M, L and XL."		
			Type of glove: Type	С	
		SÜE	The permeation perf least level 1 against chemical	formance at one test	

Table 2: Results for tests according to ISO 374-1:2016 Clause 6 and 7

Clause	Tests	Specification	Results
		Protective gloves against dangerous chemicals shall be marked in accordance with the requirements for protective gloves in EN 420 and with the following:	NT
6	Marking	 6.3 Marking of Type C gloves (The permeation level shall be at least Class 1 against minimum of one test chemical): The tested chemical shall be identified by its code letter which shall be marked under the pictogram and a reference to ISO 374-1:2016/ Type C. 	NT
		Inferred results	Not tested



RESULTS (cont'd):

Table 2: Results for tests according to ISO 374-1:2016 Clause 6 and 7 (cont'd)

Sample: Disposable Nitrile Gloves, Lot No. 2020/04/18

Clause	Tests	Specification	Results
Clause 7	Tests	 Specification The information supplied by the manufacturer shall be in accordance with the requirements as defined in EN 420 and the following warnings shall be added in the user instructions: "This information does not reflect the actual duration of protection in the workplace and the differentiation between mixtures and pure chemicals." "The chemical resistance has been assessed under laboratory conditions from samples taken from the palm only (except in cases where the glove is equal to or over 400 mm – where the cuff is tested also) and relates only to the chemical tested. It can be different if the chemical is used in a mixture." "It is recommended to check that the gloves are suitable for the intended use because the conditions at the workplace may differ from the type test depending on temperature, abrasion and degradation." "When used, protective gloves may provide less resistance to the dangerous chemical due to changes in physical properties. 	Results NT NT NT NT
		 Movements, snagging, rubbing, degradation caused by the chemical contact etc. may reduce the actual use time significantly. For corrosive chemicals, degradation can be the most important factor to consider in selection of chemical resistant gloves" "Before usage, inspect the gloves for any defect or imperfections." For reusable gloves, the manufacturer shall provide the relevant instructions for decontamination. If there is no information about decontamination, then it is intended for single use only and the following warning shall be added: "For single use only." 	NT NT NT
		Inferred result	Not tested



RESULTS (cont'd):

Table 3: Results for EN 420:2003+A1:2009

Sample: Disposable Nitrile Gloves, Lot No. 2020/04/18

Test	EN 420:2003+A	ults	Inferred Results		
	Size		-		-
I. Determination of pH	S		7.	0	Passed
Value,	М	> 3.5 and < 9.5	7.	0	Passed
pH value	L		7.	0	Passed
	XL		7.	0	Passed
	Size	Minimum length of glove (mm)	-		-
II. Sizing,	S (6)	220	250		Passed
minimum length of	M (7)	230		250	
glove (mm)	L (8)	240		0	Passed
	XL (9) 2		270		Passed
	Level of performance Sma		st pin diameter fulfilling st conditions (mm)		
III. Dexterity,	1	11	Size	-	
level of	2	9.5	S	5	-
performance	3	8	М	5	
	4	6.5	L	5	
	5	5	XL	5	

REMARKS:

- 1. For Clause 5.2 Penetration, the test sample will be four gloves of each size, with an overall minimum of 16 gloves per performed test (Air leak test and Water leak test). If one sample fails the penetration test, the test shall be reported as having failed.
- 2. For Clause 5.3 Degradation, the test specimens for each size will be 3 gloves and 6 specimens will be cut from each glove. For each glove, 3 specimens will be exposed to the challenge chemical (40% Sodium Hydroxide) and 3 specimens will be unexposed. After prepare the specimens, and exposed to 40% Sodium Hydroxide for 1 hour, puncture the specimen and record the peak force required.
- 3. For Clause 5.4 Permeation, The palm area of the glove sample was mounted between two halves of a test cell. The test cell consisted of a two-compartment cell with 40% Sodium Hydroxide on glove's normal outside surface and Ultrapure Water on the glove's normal inside surface. Testing were carried out at ambient temperature (23°C ± 2°C). The collecting medium were sampled and analysed for 40% Sodium Hydroxide at 10 min (level 1), 30 min (level 2), 60 min (level 3), 120 min (level 4), 240 min (level 5) and 480 min (level 6). The extracts were then analysed by Ion Chromatography. The results were used to calculate the permeation rate of 40% Sodium Hydroxide through the glove material. Based on the result, the minimum rate of sampling was determined. The tests were repeated at 10 min, 30 min, 60 min, 120 min, 240 min and the sampling interval of 11 min and collected until 480 mins. The extracts were then analysed by Ion Chromatography for the Normalised Permeation Rate. A blank test was carried out exactly with the same procedure except Ultrapure Water was used.

Note: Chemical transfer referred to the quantity of chemical which had passed through per cm² of glove sample at the termination of the test. The thickness of the glove is 0.04mm.



REMARKS (cont'd):

4. Table A Classification of Glove Levels According to Breakthrough Time for Clause 5.4 Permeation

Breakthrough Time (mins) *	Permeation performance level
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

* The breakthrough time is deemed to have occurred when the analytical equipment detects a permeation rate of 1 μ g/cm²/min.

- 5. NA: Not applicable for the submitted sample.
- 6. NT: Not tested.

Wong Bee Hui Lee Dai Yi Product Manager Medical Health Services (NAM) Engineer



APPENDIX:



Photo 1: Disposable Nitrile Gloves, Lot No. 2020/04/18



Photo 2: Packaging Artwork

Test Report No. 7191237186-EEC20/01-WBH dated 26 May 2020



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- 5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011





SUBJECT	Microbiological Analysis
TEST LOCATION	TÜV SÜD China
	TÜV SÜD Products Testing (Shanghai) Co., Ltd. B-3/4, No.1999 Du Hui Road, Minhang District Shanghai 201108, P.R. China
CLIENT NAME	HEBEI TITANS HONGSEN MEDICAL TECHNOLOGY CO., LTD
CLIENT ADDRESS	EASTERN INDUSTRIAL ZONE, NANGONG CITY, HEBEI PROVINCE, CHINA
TEST PERIOD	30-Apr-2020~13-May-2020
TEST REQUEST	Penetration of Phi-X174 Bacteriophage Test - with reference to ISO 16604-2004, BS EN ISO 374-5:2016
Prepared	By SÜD Authorized By
Be Ka (Bella Xu	$\frac{\chi_u}{(\text{Leo Liu})}$
Report Dra	ter Authorized Signatory

Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Without the agreement of the laboratory , the client is not authorized to use the test results for unapproved propaganda.

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Phone : +86 (21) 6037 6375 Fax : +86 (21) 6037 6345 Email: food.chem@tuv-sud.cn Webpage: www.tuv-sud.cn

Regional Head Office: TÜV SÜD Certification and Testing (China) Co., Ltd. No.151 Heng Tong Road Shanghai 200 070 P.R.China



RECEIPT DATE / TEST DATE

30-Apr-2020/ 30-Apr-2020

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS:

Sample Name:	Disposable Nitrile Gloves
Batch No./Date:	LOT:20/04/18; 2020/04/18
Manufacturer:	Hebei Titans Hongsen Medical Technology Co., Ltd

SAMPLE NO.	SAMPLE SPECIFICATION	DESCRIPTION	PHOTOGRAPH
721654161-1	Color: blue Size: S	Gloves	
721654161-2	Color: blue Size: M	Gloves	Elio54161-2
721654161-3	Color: blue Size: L	SÜD Gloves	ATTOSETET - 3
721654161-4	Color: blue Size: XL	Gloves	221056161-4

TEST METHOD(S)

Penetration of Phi-X174 Bacteriophage Test

- in accordance with BS EN ISO 374-5:2016 Protective gloves against dangerous chemicals and microorganisms Part 5: Terminology and performance requirements for micro-organisms risks, 5.3 Protection against viruses. Test method with reference to ISO 16604-2004 Clothing for protection against contact with blood and body fluids -Determination of resistance of protective clothing materials to penetration by bloodborne pathogens — Test method using Phi-X174 bacteriophage

Chemical/Microbiology Laboratory: TÜV SÜD Products Testing (Shanghai) Co., Ltd. B-3/4, No.1999 Du Hui Road, Minhang District Shanghai 201108 P.R. China

Phone : +86 (21) 6037 6375 Fax : +86 (21) 6037 6345 Email: food.chem@tuv-sud.cn Webpage: www.tuv-sud.cn

Regional Head Office: TÜV SÜD Certification and Testing (China) Co., Ltd. No.151 Heng Tong Road Shanghai 200 070 P.R.China





上海が夢ど見き

REQUIREMENT

- Exposure Procedure: B Sampling Size: 75mm×75mm Negative control: Polyethylene material Positive control: 0.04 µm microporous membrane Prior to testing, condition all test specimens and controls for a minimum of 24 hours at $(21\pm5)^{\circ}$ and 30%~80% relative humidity.

TEST ORGANISM(S)

Bacteriophage ATCC 13706-B1

PROCEDURE

- 1. Compatibility testing
 - 1.1. Test three specimens representing each material type to be tested.
 - 1.2. With the sterile cell placed horizontally on the laboratry bench, insert the specimen in the test cell with the back of the hand and the palm of the hand toward the cell reservoir.
 - 1.3. Assemble the test cell. Torgue the bolts in the test cell to 13.6 N·m each.
 - 1.4. With the cell remaining in the horizontal position on the laboratory bench, place a 2.0 µL aliquot of the Phi-X174 bacteriophage in bacteriophage nutrient broth, containing a total of 900-1200 PFU, near the middle of each piece of test specimen.
 - 1.5. Prepare a control by adding a 2.0 µL aliquot from the same suspension directly into 5.0 mL of sterile bacteriophage nutrient broth.
 - 1.6. After 60 min, quantitatively assay by adding 5.0mL of sterile bacteriophage nutrient broth onto the surface of the specimen.
 - 1.7. Calculate the ratio of the control assay titer to the test material assay titer using the following equation:
 - control assay titer (PFU/mL) - =1.1 ratio=-
- test material assay titer (PFU/mL) 1.8. Record the initial titer of the Phi-X174 bacteriophage challenge suspension used for the test . ((2 \pm 1)x10⁸ PFU/mL times the ratio calculated.)

2. Test procedure

- 2.1. Prepare the bacteriophage challenge suspension (40-44 mN/m) for the test.
- 2.2. With the sterile cell placed horizontally on the laboratry bench, insert the specimen in the test cell with the back of the hand and the palm of the hand toward the cell reservoir.
- 2.3. Assemble the test cell. Torque the bolts in the test cell to 13.6 N·m each.
- 2.4. Mount the test cell in the test apparatus in a vertical position and close the drain valve.
- 2.5. Penetration test: If liquid appears to penetrate through the test specimens at anytime during the test, terminate the test.
 - (1) Carefully fill the test cell reservoir with approximately 60 mL of the Phi-XI74 bacteriophage challenge suspension
 - (2) Step1: Observe for 5 min at 0 psi.
 - Step2: Slowly increase the pressure to 2.0 psi at the rate of no more than 0.5 psi/s, keep the pressure at 2.0 psi, observe for 1 min.
 - Step3: Slowly decrease the pressure to 0 psi at the rate of no more than 0.5 psi/s, observe for 54 min.
 - (3) At the end of the time period, open the drain valve and drain the test cell of the

bacteriophage challenge suspension. Dilute and assay the bacteriophage concentration. 2.6. Specimen surface assay procedure

- (1) With the sterile cell placed horizontally on the laboratory bench. Slowly add 5.0 mL of sterile bacteriophage nutrient broth onto the exposed surface of the specimen.
- (2) Gently swirl the test cell for approximately 1 min. Assay the liquid soon after collecting.
- 2.7. Remove the specimen from the test cell and prepare the test cell for sterilization.

Chemical/Microbiology Laboratory: TÜV SÜD Products Testing (Shanghai) Co., Ltd. B-3/4, No.1999 Du Hui Road, Minhang District Shanghai 201108 P.R. China

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Regional Head Office: TÜV SÜD Certification and Testing (China) Co., Ltd. No.151 Heng Tong Road Shanghai 200 070 P.R.China .R)





3. Test controls

- 3.1. The negative control was negative for bacteriophage penetration.
- 3.2. The positive control was positive for bacteriophage penetration.
- 3.3. Record the final titer of the bacteriophage challenge at the conclusion of the 60 min test.

TEST RESULT(S)

Test Items		Initial	Final titer PFU/ml	Test Results				
		titer PFU/mI		Step1	Step2	Step3	Assay titer (PFU/mI)	Pass/Fail
	Control(+)	1.9x10 ⁸	1.9x10 ⁸	None Seen	Seen	-	-	Acceptable
	Control(-)	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Acceptable
	721654161 -1①	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -1②	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -1③	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -2①	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
Penetration of	721654161 -2②	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
Phi-X174 Bacteriophage	721654161 -2③	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -3①	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -3②	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -3③	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -4①	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -4②	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass
	721654161 -4③	1.9x10 ⁸	1.9x10 ⁸	None Seen	None Seen	None Seen	<1	Pass

Note:

1.PFU: Plaque Forming Unit.

2. This report is for internal use only such as internal scientific research ,education, quality control, product R&D.

-END OF THE TEST REPORT-

Regional Head Office: TÜV SÜD Certification and Testing (China) Co., Ltd. No.151 Heng Tong Road Shanghai 200 070 P.R.China



Test Report



No.: QDHL2005003787MD EN

国际互认 检测 TESTING **CNAS L0604**

Date: MAY.21,2020

Page: 1 of 5

HEBEI TITANS HONGSEN MEDICAL TECHNOLOGY CO., LTD. Client name Client address EASTERN INDUSTRIAL ZONE, NANGONG CITY, XINGTAI CITY, HEBEI, CHINA Sample Description SINGLE-USE NITRILE PATIENT EXAMINATION GLOVES (THIN) NOT PROVIDED Lot No. Lot Size NOT PROVIDED Sample Quantity S: 200PCS, M: 200PCS, L: 200PCS, XL: 200PCS Style/ Item No. S, M, L, XL HEBEI TITANS HONGSEN MEDICAL TECHNOLOGY CO., LTD. Manufacture Country of Origin CHINA EUROPE & USA Country of Destination As above test item and its relevant information regarding to the submission are provided and confirmed by

the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date **Test Performing Date** SGS Ref. No.

MAY.06,2020 MAY.06,2020 TO MAY.21,2020 TJHL2004002165MD



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7361643



	Iest Report No.: QDHL2005003787MD_EN Date: MAY.21,2020	Page: 2 of 5
Te	st Requested	Result
1.	BS EN 455-1:2000 MEDICAL GLOVES FOR SINGLE USE – PART 1: REQUIREMENTS AND TESTING FOR FREEDOM FROM HOLES (CLAUSE 5.1) (FOR SIZE S ONLY)	Pass
2.	BS EN 455-2:2015 MEDICAL GLOVES FOR SINGLE USE – PART 2: REQUIREMENTS AND TESTING FOR PHYSICAL PROPERTIES (CLAUSE 4.2, 4.3) (FOR SIZE L ONLY)	Pass
3.	BS EN 455-2:2015 MEDICAL GLOVES FOR SINGLE USE – PART 2: REQUIREMENTS AND TESTING FOR PHYSICAL PROPERTIES (CLAUSE 5.2, 5.3) (FOR SIZE XL ONLY)	Pass
4.	BS EN 455-3:2015 MEDICAL GLOVES FOR SINGLE USE—PART 3: REQUIREMENTS AND TESTING FOR BIOLOGICAL EVALUATION (CLAUSE 4.4) (FOR SIZE M ONLY)	Pass

Remark: - Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be used for publicity, without prior written approval of the SGS.

SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Jessio Gr

Jessica Gao Approved Signatory



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7361644





Test Report No.: QDHL2005003787MD_EN Date: MAY.21,2020 Page: 3 of 5

Test Conducted:

1. BS EN 455-1:2000 Medical gloves for single use - Part 1: Requirements and testing for

freedom from holes

Number of	f test sample	:	200 Pieces	a star store
Sample size	ze	:	S	25 da - 5 da
Number of	f non-conforming gloves	:	0	
Clause 5	Test Items Watertightness test for	de	tection of holes	Result
5.1	Referee testing		1. A. S. S.	Pass (See note 1)
Noto	Sample quan	tity	: 200pcs, AQL:1.5, Ac	:7, Re:8, Found:0.

by SGS.

 BS EN 455-2:2015 Medical gloves for single use – Part 2: Requirements and testing for physical properties

Number of test sample	: 20	26 Pieces
Туре	:	Examination/procedure gloves b)
Size		Examination/procedure gloves: L, XL

Clause	Test Items	Result
4	Dimensions (for size L only)	2 9 . 8
4.2	Length	Pass (See result 1)
4.3	Width	Pass (See result 1)
5	Strength (for size XL only)	
5.2	Force at break	Pass (See result 2)
5.3	Force at break after challenge testing	Pass (See result 2)
		F 5 6 6



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Test Report No.: QDHL2005003787MD_EN Date: MAY.21,2020 Page: 4 of 5

Result 1: Dimensions

Size		CP Star C
No.	Length (mm)	Width (mm)
G 1 5 6	242	108
2	249	109
3	242	109
4	245	108
5	244	109
6	241	109
7 6	244	109
8	244	109
9	245	109
10	246	109
5 6 11 62 9	245	109
12	247	110
13	244	110
Standard requirement	≥240	110±10
Median value	244	109

Result 2: Strength

5 6 6	2 42	Size: XL	and all
6 .0 9	For	ce at break (N)	do . 7 . 9
Befo	re aging	Af	ter aging
No.	1 20	No.	510 0
5 10 00	8.3	29 21 1	7.9
2	7.5	2	7.3
3 5 6	8.3	3	8.0
4	7.7	4 4	7.5
5	7.2	2 5 5	6.7
6	7.0	6	6.9
7	8.3	20 7 6	7.5
8	8.2	8	7.3
9 9	8.1	9	7.2
10	7.7	10	7.3
11 5	8.0	11 9	7.8
12	7.0	12	6.6
13	7.7	13	7.2
Standard requirement	≥6.0	Standard requirement	≥6.0
Median value	7.7	Median value	7.3



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7361646





Test Report

No.: QDHL2005003787MD_EN

Date: MAY.21,2020

Page: 5 of 5

 BS EN 455-3:2015 Medical gloves for single use – Part 3: Requirements and testing for biological evaluation

Number of test sample	: 5 Pieces
Sample size	S : M S S S S S S
Finishes of gloves	: Powdered-free gloves other than surgeon's gloves
Clause Test Items	Result

4.4 Powder-free gloves

Pass (See note 1)

1 Test according to EN ISO 21171:2006, the average mass of powder per glove is 0.10mg. (Requirement: ≤2mg per powder-free glove)

Remark: The declaration of conformity is only based on the actual value of laboratory activity, measurement uncertainty of the results not take into account.

Sample Photo:

Note



SGS authenticate the photo on original report only

End of Report



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Test Repo	ort No.:CZM	B20219856ZH	Date:Dec 10,2021		Page 1 of 5		
		Inspectio	on report	、火亮能。			
No:HS00	1			AN AN AR AS	- A		
Company	Hebei Titans H Eastern Indus	ongsen Medical Techno trial Zone, Nangong	ology Co.,Ltd ; City, Xingtai City	7. Hebei Prov	Ince. China		
Sample informati on	single use exami	nation nitrile glove		(1) 11 11 11			
Nature of inspection	testing	Test start date	9 / 1 / 2021	Date of report	1 2 / 9/2021		
Judgment basis	EN 455-4 2009	Storage and measuremen	t test and requirement	s»			
Conclusion of compre hensive test					*		
F.	Т	est items	Judgment basis		determine		
	pinhole		EN 455-1 2020		qualified		
	size		EN 455-2 2015		qualified		
	Breaking strengt	h	EN 455-2 2015		qualified		
Inspection and testing							
remarks	The inspection and testing items in this report are carried out under the environmental conditions specified in the corresponding standards (except for those noted). The copy or duplicate is invalid without the confirmation seal of the report.						
	-						



常州沐邦检测技术有限公司 Changzhou Mubang Testing Technology Co., Ltd

武进国家高新技术产业开发区西湖路2号溪湖花园72栋922室 Room 922, building 72, Xihu garden, No.2, Xihu Road, Wujin national high tech Industrial Development Zone

Test Report

Date:Dec 10,2021

Page 1 of 5

Sample picture



Attached page of the first batch inspection report

Test date: 9/1/2021

NO: HS001

NO: HSUUI					Page	5 01 3
Inspecti on and testing project	requirement	Disqualifi cation allowed (number)	Number of tests (number)	The actual quantity is unqualified (found)	determine	remarks
● pinhole	No leakage	12	500	0	qualified	
project	Test	requirement	Number of tests (number)	result	determine	remarks
• size	length (mm)	≥240	13	243	qualified	
	width (mm)	≥110	13	114	qualified	
Breaking strength	Breaking force (N)	≥6	13	7.5	qualified	
	After using the breaking force Test (n) 7 days (70 \pm 2) Centigrade	≥6	13	7.3	qualified	

1.A total of 3000 samples were selected and divided into 3 batches. The detection cycle was 7 days.

2. The experiment was carried out in our laboratory. The test temperature is 70 °C \pm 2 °C (t he laboratory environment temperature and humidity are controlled)

(this column is blank)

remarks



End of this report -

常州沐邦检测技术有限公司 Changzhou Mubang Testing Technology Co., Ltd 武进国家高新技术产业开发区西湖路2号溪湖花园72栋922室

Room 922, building 72, Xihu garden, No.2, Xihu Road, Wujin national high tech Industrial Development Zone

AN MILE

Attached page of the second batch inspection report

Test date: 9/8/2021

NO: HS001

NO:HSOOT					Page 5 01 4
Inspecti on and testing project	requirement	Disqualifi cation allowed (number)	Number of tests (number)	The actual quantity is unqualified (found)	determine remarks
● pinhole	No leakage	12	500	1	qualified
Inspecti on and testing project	test	requirement	Number of tests (number)	result	determine remarks
	length (mm)	≥240	13	243	qualified
• size	width (mm)	≥110	13	113	qualified
	Breaking force (N)	≥6	13	7.2	qualified
● Breaking strength	After using the breaking force Test (n) 7 days (50 ± 2) Centigrade	≥6	13	6. 9	qualified

1. A total of 2800 samples were selected and divided into three batches. The detection cycl e was 45 days.

2. The experiment was carried out in our laboratory. The test temperature is 50 °C ± 2 °C (the laboratory environment temperature and humidity are controlled)

(this column is blank)

remarks



— End of this report ———

常州沐邦检测技术有限公司 Changzhou Mubang Testing Technology Co., Ltd 武进国家高新技术产业开发区西湖路2号溪湖花园72栋922室 Room 922, building 72, Xihu garden, No.2, Xihu Road, Wujin national high tech Industrial Development Zone

Attached page of the third batch inspection report

Test date: 10/23/2021

NO: HS001

NO: H2001					Page 5 of 5
Inspecti on and testing project	requirement	Disqualifi cation allowed (number)	Number of tests (number)	The actual quantity is unqualified (found)	determine remarks
●pinhole	No leakage	12	500	1	qualified
Inspecti on and testing project	test	requirement	Number of tests (number)	result	determine remarks
● size	length (mm)	≥240	13	241	qualified
	width (mm)	≥110	13	110	qualified
Breaking strength	Breaking force (N)	≥ 6	13	7.0	qualified
	After using the breaking force Test (n) 7 days (50 \pm 2) Centigrade	≥6	13	6.8	qualified

1. A total of 2600 samples were selected and divided into three batches. The detection cycl e was 45 days.

2. The experiment was carried out in our laboratory. The test temperature is 50 $^{\circ}C \pm 2 ^{\circ}C$ (the laboratory environment temperature and humidity are controlled)

remarks This test is only responsible for the incoming samples.



——— End of this report—— 常州沐邦检测技术有限公司 Changzhou Mubang Testing Technology Co., Ltd 武进国家高新技术产业开发区西湖路2号溪湖花园72栋922室 Room 922, building 72, Xihu garden, No.2, Xihu Road, Wujin national high tech Industrial Development Zone