





# **Final Report**

Report Number: SDWH-M202003265-4(E)

# Skin Irritation Test of Disposable Nitrile Examination Glove

According to ISO 10993-10:2010 0.9% Sodium Chloride Injection Extract

Sponsor: Shanxi Hongjin Plastic Technology Co., Ltd

Address: Coal Bed Gas Industrial Zone, Qu'e Town, Daning County,

Linfen City, Shanxi Province



Sanitation & Environment Technology Institute, Soochow University

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# Supplementary Explanation

Report No.: SDWH-M202003265-4(E)

- (1) Please apply for rechecking within 15 days of receiving the report if there are any objections.
- (2) Any erasure or without special inspection and testing seal renders the report null and void.
- (3) The report is only valid when signed by the persons who edited, checked and approved it.
- (4) The results relate only to the articles tested.
- (5) The report shall not be reproduced except in full without the written approval of the institute.

# **Quality Assurance Statement**

Report No.: SDWH-M202003265-4(E)

The Quality Assurance Unit inspected/audited this study in compliance with the following GLP regulations:

Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA). The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

The Quality Assurance Unit conducted inspections on the following dates. The findings were reported to the Study Director and to the Testing Facility Management. The final report was reviewed by the Quality Assurance Unit. The final report accurately describes the test methods in accordance with standard operating procedures, and the results are consistent with raw data of non-clinical studies conducted according to the study protocol.

Inspections Date of Inspection		Date Reported to Study Director	Date Reported to Testing Facility Management.
Study Protocol	2020-06-30	2020-06-30	2020-07-31
Study Procedure	2020-07-03	2020-07-03	2020-07-31
Raw Data	2020-07-31	2020-07-31	2020-07-31
Final Report	2020-07-31	2020-07-31	2020-07-31

Quality Assurance Unit: Zou Jing 2020-07-31

Quality Assurance Date

# **GLP Compliance Statement**

Report No.: SDWH-M202003265-4(E)

This study was fully in accordance with the technical requirements of the study protocol.

This study was conducted in compliance with Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA).

The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

# **Verification Dates**

Test Article Receipt	2020-06-23
<b>Protocol Effective Date</b>	2020-06-30
<b>Technical Initiation Date</b>	2020-06-30
<b>Technical Completion Date</b>	2020-07-10
Final Report Completion Date	2020-08-03

Edited by: Chenry 2020-07-31

Date

Reviewed by: 2020-08-03

Study Director Date

Date

Approved by: Fanging > 7 2020-08-03

Authorized Signatory

Sanitation & Environment Technology Institute, Soochow

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### **Summary**

Report No.: SDWH-M202003265-4(E)

#### 1 Test Article

<b>Test Article Name</b>	Disposable Nitrile Examination Glove
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd
Address	Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen City, Shanxi Province
Model	Not supplied by sponsor (N/S)
Lot/Batch	N/S

#### 2 Main Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

#### 3 Test Method

The extract of test article was evaluated for skin irritation. With ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization. Study protocol number: SDWH-PROTOCOL- GLP-M202003265-4.

#### 4 Conclusion

The test result showed that the response of the test article extract was categorized as negligible under the test condition.

### **Test Report**

Report No.: SDWH-M202003265-4(E)

### 1 Purpose

The extract of test article was evaluated for skin irritation and extrapolating the results to humans, but it does not establish the actual risk of irritation.

#### 2 Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

ISO 10993-12:2012 Biological evaluation of medical devices — Part 12: Sample preparation and reference materials

ISO 10993-2:2006 Biological evaluation of medical devices — Part 2: Animal welfare requirements

### 3 Compliance

Good Laboratory Practice Regulations, 21 CFR, Part 58.

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories (CNAS—CL01 Accreditation criteria for the competence of testing and calibration laboratories) China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE Registration No. CNAS L2954.

RB/T 214—2017 Competence assessment for inspection body and laboratory mandatory approval—General requirements for inspection body and laboratory Certification and Accreditation Administration of the People's Republic of China INSPECTION BODY AND LABORATORY MANDATORY APPROVAL Certificate No. CMA 180015144061.

#### 4 Identification of Test and Control Articles

#### 4.1 Test Article

Test Article Name Disposable Nitrile Examination Glove						
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd					
Address	Coal Bed Gas Industrial Zone,	, Qu'e Town, Daning County, Linfen City,				
	Shanxi Province					
Test Article Initial State	Not Sterilized					
CAS Code	N/S					
Model	N/S					
Size	M					
Lot/Batch	N/S					
Test Article Material	nitrile					
Packaging Material	N/S					
Physical State	pieces					
Color	blue					
Density	N/S					
Stability	N/S					
Solubility	N/S					
Storage Condition	Room Temperature					
Intended Clinical Use to prevent cross contamination						
The information of out the test entirely area grantfield by the angular valence on all orders						

The information about the test article was supplied by the sponsor wherever applicable.

The Sponsor is responsible for all test article characterization data as specified in the GLP regulations.

#### 4.2 Control Article

#### 4.2.1 Negative Control

Name: 0.9% sodium chloride injection (SC)

Manufacturer: Guangxi Yuyuan Pharmaceutical Co., Ltd.

Size: 500mL

Lot/ Batch#: H20010204 Physical State: Liquid Color: Colourless

Storage Condition: Room Temperature

#### **4.2.2 Positive Control**

Name: sodium dodecyl sulfate Manufacturer: Ron reagent

Size: 500g

Lot/ Batch#: RH178474 Physical State: Powder

Color: White

Storage Condition: Room Temperature Solvent: 0.9% sodium chloride injection (SC)

Concentration: 20%
Date prepared: 2020-06-30

### 5 Equipment and Reagents

### 5.1 Equipment

Equipment Name	<b>Equipment Number</b>	Calibration Expire
Electronic Scale	SDWH2436	2020-12-10
Horizontal Large Capacity Constant Temperature Vibrator	SDWH2671	2021-01-13
Steel straight scale	SDWH463	2020-07-29
Vertical pressure steam sterilizer	SDWH2097	2021-03-25

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#### 5.2 Reagents

Reagent Name	Manufacturer	LOT
0.9% sodium chloride injection (SC)	Guangxi Yuyuan Pharmaceutical Co., Ltd.	H20010204
Sodium dodecyl sulfate (SDS)	Ron reagent	RH178474

### 6 Identification of Test System

Species: New Zealand white Rabbit (single strain).

Number: 3 Sex: Female

Weigh: Initial body weight not less than 2kg

Health status: Healthy, not previously used in other experimental procedures, young adult,

nulliparous and not pregnant.

Housing: Animals were housed in cages identified by a card indicating the lab number, test code

and first treatment date.

Animal identification: Stain with dyeing liquid

Cages: Stainless steel cage

Acclimation Period: 7 days under the same conditions as for the actual test

#### 7 Animal Care and Maintenance

Animal purchase: Provided by Suzhou Experimental Animal Sci-tech Co., Ltd. < Permit Code:

Report No.: SDWH-M202003265-4(E)

SCXK (SU) 2015-0007>

Bedding: NA

Feed: Rabbit Diet, Suzhou Experimental Animal Sci-tech Co., Ltd.

Water: Drinking water met the Standards for Drinking Water Quality GB 5749-2006

Animal room temperature: 18-26°C

Animal room relative humidity: 30%-70%

Lights: 12 hours light/dark cycle, full-spectrum lighting

Personnel: Associates involved were appropriately qualified and trained.

Selection: Only healthy, previously unused animals were selected.

There were no known contaminants present in the feed, water expected to interfere with the test

data.

### 8 Justification of Test System and Route of Administration

The rabbit is specified as an appropriate animal model for evaluating potential skin irritants by the current testing standards. Positive control sodium dodecyl sulfate has been substantiated at SDWH with this method. See table 3.

The patches (about 2.5cm×2.5cm) which moistened by test article extract, and directly applying to the rabbit skin is considered to be the best mean of contact.

### 9 Experimental Design

#### 9.1 Preparation of Extracts

#### 9.1.1 Pretreatment

Autoclaving at 121°C for 30 min.

#### 9.1.2 Extraction

Under aseptic conditions, samples were taken according to the sampling method (Random sampling). The extraction was performed with agitation in closed inert containers according to the extraction ratio listed in the following table (sample: extraction vehicle). The extraction vehicle was SC.

		Ext	Extract Procedure			
Test Period	Actual Sampling	Extract Ratio	Extraction volume	Condition	- Final Extract	
polar test extract	Surface area 120 cm <sup>2</sup>	6 cm <sup>2</sup> : 1 mL	20.0 mL	50°C, 72 h	Clear	
polar negative control	/	/	10.0 mL	50°C, 72 h	Clear	

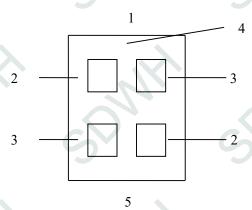
The state of the extract did not change after extraction. The extract was stored at room temperature, and tested within 24 h, without the process of adjusting its pH value, filtering, centrifuging, diluting, etc. The vehicle (without the test article) was similarly prepared to serve as the control.

#### 9.2 Experimental Procedure

Use the rabbits with healthy intact skin. Fur was generally clipped within 4-24 h of testing on the backs of the rabbits, a sufficient distance on both sides of the spine for application and observation of all test sites (approximately 10cm×15 cm).

Apply 0.5 mL extract (s) of test article or control to 2.5 cm×2.5 cm absorbent gauze patches, and then apply the patch soaked with the extract of test article or control directly to the skin on each side of each rabbit as shown in Figure 1, and then wrap the application sites with a bandage

(semi-occlusive or occlusive) for a minimum of 4 h. At the end of the contact time, remove the dressing and washing with lukewarm water or other suitable nonirritating solvent and careful drying.



1- Cranial end, 2- Test site, 3- Control site, 4- Clipped dorsal region, 5- Caudal end Figure 1 Location of skin application sites

#### 9.3 Observation of Animals

Describe and score the skin reaction for erythema and oedema according to the scoring system given in Table 1 for each application site at each time interval. Record the appearance of each application site at  $(1\pm0.1)$  h,  $(24\pm2)$  h,  $(48\pm2)$  h and  $(72\pm2)$  h following removal of the patches.

Table 1 — Scoring system for skin reaction

Reaction	Irritation score
Erythema and Eschar Formation	
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate erythema	3
Severe erythema (beet redness) to eschar formation preventing grading of erythema	4
Oedema Formation	
No edema	0
Very slight edema (barely perceptible)	1
Well-defined edema (edges of area well-defined by definite raising)	2
Moderate edema (raised approximately 1mm)	3
Severe edema (raised more than 1mm and extending beyond exposure area)	4
Maximal possible score for irritation	8
Other adverse changes at the skin sites shall be recorded and reported.	

#### 9.4 Evaluation of Results

Use only  $(24\pm2)$  h,  $(48\pm2)$  h and  $(72\pm2)$  h observations for calculation.

After the 72 h grading, all erythema grades plus oedema grades  $(24\pm2)$  h,  $(48\pm2)$  h and  $(72\pm2)$  h were totalled separately for each test sample and blank for each animal. The primary irritation score for an animal was calculated by dividing the sum of all the scores by 6 (two test/observation sites, three time points).

To obtain the primary irritation index for the test article, add all the primary irritation scores of the individual animals and divide by the number of animals.

When blank or negative control is used, calculate the primary irritation score for the controls and subtract that score from the score using the test material to obtain the primary irritation score.

The primary irritation index (PII) for the test article was evaluated according to Table 2.

Table 2 — Primary or cumulative irritation index categories in a rabbit

Mean score	Response category
0~0.4	Negligible
0.5~1.9	Slight
2~4.9	Moderate
5~8	Severe

#### 10 Results

All animals were survived and no abnormal signs were observed during the study. According to what observed, the response of skin on testing side did not exceed that on the control side. Thus, the primary irritation index for the test article was calculated to be 0. See table 4.

#### 11 Conclusion

The test result showed that the response of the test article extract was categorized as negligible under the test condition.

### 12 Record Storage

All raw data pertaining to this study and a copy of the final report are to be retained in designated SDWH archive.

### 13 Confidentiality Agreement

Statements of confidentiality were as agreed upon prior to study initiation.

#### 14 Deviation Statement

There were no deviations from the approved study protocol which were judged to have any impact on the validity of the data.

### **Annex 1** Test Data

Report No.: SDWH-M202003265-4(E)

 Table 3
 Positive control

				Inter	val (hou	rs):	
Extract	Rabbit No.	lo. Group	Reaction	score=le	score=left site/right site		
				24±2h	48±2h	72±2h	
		Positive Control	Erythema	3/3	4/4	4/4	
CC		Positive Control	Oedema	2/2	3/3	3/4	
SC	Co <sup>V</sup>	Nanadian Canturi	Erythema	0/0	0/0	0/0	
		Negative Control	Oedema	0/0	0/0	0/0	
		D G . 1	Erythema	2/3	3/3	4/4	
CC.	2	Positive Control	Oedema	3/3	3/3	4/3	
SC	2	N C . 1	Erythema	0/0	0/0	72±2h 4/4 3/4 0/0 0/0 4/4	
		Negative Control	Oedema	0/0	0/0		
		Desiries Control	Erythema	3/3	4/3	4/3	
CC	$C_{2}$	Positive Control	Oedema	3/2	3/3	4/4	
SC	3	N C . 1	Erythema	0/0	0/0	0/0	
		Negative Control	Oedema	0/0	0/0	0/0	
The prin	nary irritation sc	ore.			6.4		

Note: Positive control performed once every six months, see SDWH-M202003007-1(Completed Date: 2020-07-03).

 Table 4
 Test Results of Dermal Observations

				Inte	rval (hou	ırs):
Extract	Rabbit No.	Group	Reaction	score=1	eft site/ri	ght site
				24±2h	48±2h	72±2h
		Test Article	Erythema	0/0	0/0	0/0
CC		Test Afficie	Oedema	0/0	0/0	0/0
SC		Na active Control	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0	0/0
		T. ( A 4: 1	Erythema	0/0	0/0	0/0
CC	2	Test Article	Oedema	0/0	0/0	
SC	2	Na ation Cantus	Erythema	na 0/0 (	0/0	0/0
		Negative Control	Oedema	0/0	0/0	0/0
		Truck Audio 1	Erythema	0/0	0/0	0/0
CC	Test Article	Oedema	0/0	0/0	0/0	
SC	3	Na action Courtes 1	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0	0/0
The prim	nary irritation sc	core.			0	

# **Annex 2** Photograph of Test Article



# Report No.: SDWH-M202003265-4(E)

# **Annex 3** Information Provided by Sponsor

#### **1 Production Process**

Not supplied by sponsor.

#### 2 Other Information

Not supplied by sponsor.

End of Report







# **Final Report**

Report Number: SDWH-M202003265-5(E)

# Skin Irritation Test of Disposable Nitrile Examination Glove

According to ISO 10993-10:2010 Sesame Oil Extract

Sponsor: Shanxi Hongjin Plastic Technology Co., Ltd

Address: Coal Bed Gas Industrial Zone, Qu'e Town, Daning County,

Linfen City, Shanxi Province



Sanitation & Environment Technology Institute, Soochow University

Address: 199 Ren-Ai Road, Suzhou Industrial Park, Suzhou, Jiangsu 215123, P. R. China Website: www.sudatest.com E-mail: med@sudatest.com

Direct: +86 512 65880038 Free: 400 107 8828

Report No.: SDWH-M202003265-5(E)

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# Supplementary Explanation

Report No.: SDWH-M202003265-5(E)

- (1) Please apply for rechecking within 15 days of receiving the report if there are any objections.
- (2) Any erasure or without special inspection and testing seal renders the report null and void.
- (3) The report is only valid when signed by the persons who edited, checked and approved it.
- (4) The results relate only to the articles tested.
- (5) The report shall not be reproduced except in full without the written approval of the institute.

# **Quality Assurance Statement**

Report No.: SDWH-M202003265-5(E)

The Quality Assurance Unit inspected/audited this study in compliance with the following GLP regulations:

Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA). The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

The Quality Assurance Unit conducted inspections on the following dates. The findings were reported to the Study Director and to the Testing Facility Management. The final report was reviewed by the Quality Assurance Unit. The final report accurately describes the test methods in accordance with standard operating procedures, and the results are consistent with raw data of non-clinical studies conducted according to the study protocol.

Inspections	Date of Inspection	Date Reported to Study Director	Date Reported to Testing Facility Management.		
Study Protocol	2020-06-30	2020-06-30	2020-07-31		
Study Procedure	2020-07-03	2020-07-03	2020-07-31		
Raw Data	2020-07-31	2020-07-31	2020-07-31		
Final Report	2020-07-31	2020-07-31	2020-07-31		

Quality Assurance Unit: Zou Jing 2020-07-31

Quality Assurance Date

# **GLP Compliance Statement**

Report No.: SDWH-M202003265-5(E)

This study was fully in accordance with the technical requirements of the study protocol.

This study was conducted in compliance with Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA).

The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

# **Verification Dates**

Test Article Receipt	2020-06-23
<b>Protocol Effective Date</b>	2020-06-30
<b>Technical Initiation Date</b>	2020-06-30
<b>Technical Completion Date</b>	2020-07-10
Final Report Completion Date	2020-08-03

Edited by: Chenry 2020-07-31

Date

Reviewed by: 2020-08-03

Study Director Date

Date

Approved by: Fanging > 7 2020-08-03

Authorized Signatory

Sanitation & Environment Technology Institute, Soochow

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### **Summary**

Report No.: SDWH-M202003265-5(E)

#### 1 Test Article

Test Article Name	Disposable Nitrile Examination Glove
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd
Address	Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen City, Shanxi Province
Model	Not supplied by sponsor (N/S)
Lot/Batch	N/S

#### 2 Main Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

#### 3 Test Method

The extract of test article was evaluated for skin irritation. With ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization. Study protocol number: SDWH-PROTOCOL- GLP-M202003265-5.

#### 4 Conclusion

The test result showed that the response of the test article extract was categorized as negligible under the test condition.

### **Test Report**

Report No.: SDWH-M202003265-5(E)

### 1 Purpose

The extract of test article was evaluated for skin irritation and extrapolating the results to humans, but it does not establish the actual risk of irritation.

#### 2 Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

ISO 10993-12:2012 Biological evaluation of medical devices — Part 12: Sample preparation and reference materials

ISO 10993-2:2006 Biological evaluation of medical devices — Part 2: Animal welfare requirements

### 3 Compliance

Good Laboratory Practice Regulations, 21 CFR, Part 58.

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories (CNAS—CL01 Accreditation criteria for the competence of testing and calibration laboratories) China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE Registration No. CNAS L2954.

RB/T 214—2017 Competence assessment for inspection body and laboratory mandatory approval—General requirements for inspection body and laboratory Certification and Accreditation Administration of the People's Republic of China INSPECTION BODY AND LABORATORY MANDATORY APPROVAL Certificate No. CMA 180015144061.

#### 4 Identification of Test and Control Articles

#### 4.1 Test Article

Test Article Name	le Name Disposable Nitrile Examination Glove				
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd				
Address	Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen Cit	y,			
	Shanxi Province				
Test Article Initial State	Not Sterilized				
CAS Code	N/S				
Model	N/S				
Size	M				
Lot/Batch	N/S				
Test Article Material	nitrile				
Packaging Material	N/S				
Physical State	pieces				
Color	blue				
Density	N/S				
Stability	N/S				
Solubility	N/S				
Storage Condition	Room Temperature				
Intended Clinical Use	to prevent cross contamination				

The information about the test article was supplied by the sponsor wherever applicable.

The Sponsor is responsible for all test article characterization data as specified in the GLP regulations.

#### 4.2 Control Article

#### **4.2.1** Negative Control

Name: sesame oil (SO)

Manufacturer: Ji'an Qingyuan District luyuanxiangliao. Co. Ltd

Size: 5kg

Lot/ Batch#: 20200312 Physical State: Oily liquid

Color: Pale yellow

Storage Condition: Room Temperature

#### **4.2.2 Positive Control**

Name: sodium dodecyl sulfate Manufacturer: Ron reagent

Size: 500g

Lot/ Batch#: RH178474 Physical State: Powder

Color: White

Storage Condition: Room Temperature

Solvent: Sesame Oil Concentration: 20% Date prepared: 2020-06-30

### 5 Equipment and Reagents

#### 5.1 Equipment

Equipment Name	<b>Equipment Number</b>	Calibration Expire
Electronic Scale	SDWH2436	2020-12-10
Horizontal Large Capacity Constant Temperature Vibrator	SDWH2671	2021-01-13
Steel straight scale	SDWH463	2020-07-29
Vertical pressure steam sterilizer	SDWH2097	2021-03-25

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#### 5.2 Reagents

Reagent Name	Manufacturer	LOT
Sesame oil (SO)	Ji'an Qingyuan District luyuanxiangliao. Co. Ltd	20200312
Sodium dodecyl sulfate (SDS)	Ron reagent	RH178474

### 6 Identification of Test System

Species: New Zealand white Rabbit (single strain).

Number: 3 Sex: Female

Weigh: Initial body weight not less than 2kg

Health status: Healthy, not previously used in other experimental procedures, young adult,

nulliparous and not pregnant.

Housing: Animals were housed in cages identified by a card indicating the lab number, test code

and first treatment date.

Animal identification: Stain with dyeing liquid

Cages: Stainless steel cage

Acclimation Period: 7 days under the same conditions as for the actual test

#### 7 Animal Care and Maintenance

Animal purchase: Provided by Suzhou Experimental Animal Sci-tech Co., Ltd. < Permit Code:

Report No.: SDWH-M202003265-5(E)

SCXK (SU) 2015-0007>

Bedding: NA

Feed: Rabbit Diet, Suzhou Experimental Animal Sci-tech Co., Ltd.

Water: Drinking water met the Standards for Drinking Water Quality GB 5749-2006

Animal room temperature: 18-26°C Animal room relative humidity: 30%-70%

Lights: 12 hours light/dark cycle, full-spectrum lighting

Personnel: Associates involved were appropriately qualified and trained.

Selection: Only healthy, previously unused animals were selected.

There were no known contaminants present in the feed, water expected to interfere with the test

data.

### 8 Justification of Test System and Route of Administration

The rabbit is specified as an appropriate animal model for evaluating potential skin irritants by the current testing standards. Positive control sodium dodecyl sulfate has been substantiated at SDWH with this method. See table 3.

The patches (about 2.5cm×2.5cm) which moistened by test article extract, and directly applying to the rabbit skin is considered to be the best mean of contact.

### 9 Experimental Design

#### 9.1 Preparation of Extracts

#### 9.1.1 Pretreatment

Autoclaving at 121°C for 30 min.

#### 9.1.2 Extraction

Under aseptic conditions, samples were taken according to the sampling method (Random sampling). The extraction was performed with agitation in closed inert containers according to the extraction ratio listed in the following table (sample: extraction vehicle). The extraction vehicle was SO.

		Ext	ract Procedur	·e	- Final			
Test Period	Actual Sampling	Extract Ratio	Extraction volume	Condition	- Final Extract			
Non-polar test extract	Surface area 120 cm <sup>2</sup>	6 cm <sup>2</sup> : 1 mL	20.0 mL	50°C, 72 h	Clear			
Non-polar negative control	/	/	10.0 mL	50°C, 72 h	Clear			

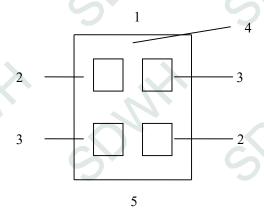
The state of the extract did not change after extraction. The extract was stored at room temperature, and tested within 24 h, without the process of adjusting its pH value, filtering, centrifuging, diluting, etc. The vehicle (without the test article) was similarly prepared to serve as the control.

#### 9.2 Experimental Procedure

Use the rabbits with healthy intact skin. Fur was generally clipped within 4-24 h of testing on the backs of the rabbits, a sufficient distance on both sides of the spine for application and observation of all test sites (approximately 10cm×15 cm).

Apply 0.5 mL extract (s) of test article or control to 2.5 cm×2.5 cm absorbent gauze patches, and then apply the patch soaked with the extract of test article or control directly to the skin on each side of each rabbit as shown in Figure 1, and then wrap the application sites with a bandage (semi-occlusive or occlusive) for a minimum of 4 h. At the end of the contact time, remove the

dressing and washing with lukewarm water or other suitable nonirritating solvent and careful drying.



1- Cranial end, 2- Test site, 3- Control site, 4- Clipped dorsal region, 5- Caudal end **Figure Location of skin application sites** 

#### 9.3 Observation of Animals

Describe and score the skin reaction for erythema and oedema according to the scoring system given in Table 1 for each application site at each time interval. Record the appearance of each application site at  $(1\pm0.1)$  h,  $(24\pm2)$  h,  $(48\pm2)$  h and  $(72\pm2)$  h following removal of the patches.

Table 1 — Scoring system for skin reaction

Reaction	Irritation score
Erythema and Eschar Formation	
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate erythema	3
Severe erythema (beet redness) to eschar formation preventing grading of	1
erythema	4
Oedema Formation	
No edema	0
Very slight edema (barely perceptible)	1
Well-defined edema (edges of area well-defined by definite raising)	2
Moderate edema (raised approximately 1mm)	3
Severe edema (raised more than 1mm and extending beyond exposure area)	4
Maximal possible score for irritation	8
Other adverse changes at the skin sites shall be recorded and reported.	

#### 9.4 Evaluation of Results

Use only (24±2) h, (48±2) h and (72±2) h observations for calculation.

After the 72 h grading, all erythema grades plus oedema grades (24±2) h, (48±2) h and (72±2) h were totalled separately for each test sample and blank for each animal. The primary irritation score for an animal was calculated by dividing the sum of all the scores by 6 (two test/observation sites, three time points).

To obtain the primary irritation index for the test article, add all the primary irritation scores of the individual animals and divide by the number of animals.

When blank or negative control is used, calculate the primary irritation score for the controls and subtract that score from the score using the test material to obtain the primary irritation score.

The primary irritation index (PII) for the test article was evaluated according to Table 2.

Table 2 — Primary or cumulative irritation index categories in a rabbit

Mean score	Response category
0~0.4	Negligible
0.5~1.9	Slight
2~4.9	Moderate
5~8	Severe

#### 10 Results

All animals were survived and no abnormal signs were observed during the study. According to what observed, the skin reaction of non-polar extract on testing side did not exceed that on the control side. Thus, the final test article score was calculated to be 0. See table 4.

#### 11 Conclusion

The test result showed that the response of the test article extract was categorized as negligible under the test condition.

### 12 Record Storage

All raw data pertaining to this study and a copy of the final report are to be retained in designated SDWH archive.

### 13 Confidentiality Agreement

Statements of confidentiality were as agreed upon prior to study initiation.

#### 14 Deviation Statement

There were no deviations from the approved study protocol which were judged to have any impact on the validity of the data.

### **Annex 1** Test Data

Report No.: SDWH-M202003265-5(E)

 Table 3
 Positive control

Г.,	D 11'/ N	6	D		rval (hou	
Extract	Rabbit No.	Group	Reaction	24±2h	eft site/riş 48±2h	
			Erythema	2/3	3/3	4/3
90		Positive Control	Oedema	3/3	4/4	4/4
SO	6	Na antina Cantual	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0	3 4/3 4 4/4 0 0/0 0 0/0 0 0/0 3 4/3 4 4/4 0 0/0 0 0/0 0 0/0 0 4/4
		D '4' C 4 1	Erythema	3/3	3/3	4/3
00	2	Positive Control	Oedema	3/3	3/4	4/4
SO	2	Nagativa Cantual	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0	4/4       4/4         0/0       0/0         0/0       0/0         0/0       0/0         3/3       4/3         3/4       4/4         0/0       0/0         0/0       0/0         4/3       4/4         3/3       3/3         0/0       0/0         0/0       0/0         0/0       0/0
		Desition Control	Erythema	3/3	4/3	4/4
SO		Positive Control	Oedema	3/2	3/3	3/3
30	3	N C 1	Erythema	0/0	0/0	0/0
	Negative Control		Oedema	0/0	0/0	0/0
The prim	nary irritation so	core.			6.6	

Note: Positive control performed once every six months, see SDWH-M202003007-2(Completed Date: 2020-07-03).

 Table 4
 Test Results of Dermal Observations

			Reaction	Interval (hours):		
Extract	Rabbit No.	Group		score=1	score=left site/right site	
				24±2h	48±2h	72±2h
	1/4	Test Article	Erythema	0/0	0/0	0/0
SO		Test Afficie	Oedema	0/0	0/0	0/0
30	5	V 60. 1	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0	0/0
	2	Test Article	Erythema	0/0	0/0	0/0
00			Oedema	0/0	0/0	0/0
SO	2	Na nativa Cantual	Erythema	0/0	0/0	0/0
		Negative Control	Oedema	0/0	0/0	0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0
		To a second	Erythema	0/0	0/0	0/0
SO		Test Article	Oedema	0/0	0/0	0/0
50	3		Erythema	0/0	0/0	0/0
	Negative Control		Oedema	0/0	0/0	0/0
The prin	nary irritation sc	core.			0	

# **Annex 2** Photograph of Test Article



# Information Provided by Sponsor

Report No.: SDWH-M202003265-5(E)

#### **1 Production Process**

Not supplied by sponsor.

#### 2 Other Information

Not supplied by sponsor.

End of Report







# **Final Report**

Report Number: SDWH-M202003265-2(E)

# Skin Sensitization Test of Disposable Nitrile Examination Glove

According to ISO 10993-10:2010
Guinea Pig Maximization Test
0.9% Sodium Chloride Injection Extract

Sponsor: Shanxi Hongjin Plastic Technology Co., Ltd

Address: Coal Bed Gas Industrial Zone, Qu'e Town, Daning County,

Linfen City, Shanxi Province



Sanitation & Environment Technology Institute, Soochow University

Address: 199 Ren-Ai Road, Suzhou Industrial Park, Suzhou, Jiangsu 215123, P. R. China Website: www.sudatest.com E-mail: med@sudatest.com

Direct: +86 512 65880038 Free: 400 107 8828

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# **Supplementary Explanation**

Report No.: SDWH-M202003265-2(E)

- (1) Please apply for rechecking within 15 days of receiving the report if there are any objections.
- (2) Any erasure or without special inspection and testing seal renders the report null and void.
- (3) The report is only valid when signed by the persons who edited, checked and approved it.
- (4) The results relate only to the articles tested.
- (5) The report shall not be reproduced except in full without the written approval of the institute.

# **Quality Assurance Statement**

Report No.: SDWH-M202003265-2(E)

The Quality Assurance Unit inspected/audited this study in compliance with the following GLP regulations:

Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA). The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

The Quality Assurance Unit conducted inspections on the following dates. The findings were reported to the Study Director and to the Testing Facility Management. The final report was reviewed by the Quality Assurance Unit. The final report accurately describes the test methods in accordance with standard operating procedures, and the results are consistent with raw data of non-clinical studies conducted according to the study protocol.

Inspections	Date of Inspection	Date Reported to Study Director	Date Reported to Testing Facility Management.	
Study Protocol	2020-06-30	2020-06-30	2020-08-18	
Study Procedure	2020-07-24 2020-07-28	2020-07-24 2020-07-28	2020-08-18	
Raw Data	2020-08-18	2020-08-18	2020-08-18	
Final Report	2020-08-18	2020-08-18	2020-08-18	

Quality Assurance Unit: Zou Jing 2020-08-18

Quality Assurance Date

# **GLP Compliance Statement**

Report No.: SDWH-M202003265-2(E)

This study was fully in accordance with the technical requirements of the study protocol.

This study was conducted in compliance with Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA).

The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

# **Verification Dates**

Test Article Receipt	2020-06-23
<b>Protocol Effective Date</b>	2020-06-30
<b>Technical Initiation Date</b>	2020-06-30
<b>Technical Completion Date</b>	2020-07-31
Final Report Completion Date	2020-08-18

Edited by: Wang Deheng 2020-08-17
Date

Reviewed by: 2020-08-18
Study Director Date

Approved by: Fanging > 7 2020-08-18

Authorized Signatory Date

Sanitation & Environment Technology Institute, Soochow

Page 5 of 15

### **Summary**

Report No.: SDWH-M202003265-2(E)

#### 1 Test Article

<b>Test Article Name</b>	Disposable Nitrile Examination Glove
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd
Address	Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen City, Shanxi Province
Model	Not supplied by sponsor (N/S)
Lot/Batch	N/S

#### 2 Main Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

#### 3 Test Method

Potential skin sensitization of test article was evaluated using guinea pig maximization test in accordance with ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization.

Study protocol number: SDWH-PROTOCOL-GLP-M202003265-2.

#### 4 Conclusion

Under the conditions of this study, the test article extract showed no significant evidence of causing skin sensitization in the guinea pig. The positive rate of sensitization was 0%. No evidence of skin sensitization in guinea pigs was found.

### **Test Report**

Report No.: SDWH-M202003265-2(E)

### 1 Purpose

The test was designed to evaluate the potential of a test article to cause skin sensitization. The test is used as a procedure for screening of contact allergens in guinea pigs and extrapolating the results to humans, but it does not establish the actual risk of sensitization.

#### 2 Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

ISO 10993-12:2012 Biological evaluation of medical devices — Part 12: Sample preparation and reference materials

ISO 10993-2:2006 Biological evaluation of medical devices — Part 2: Animal welfare requirements

### 3 Compliance

Good Laboratory Practice Regulations, 21 CFR, Part 58.

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories (CNAS—CL01 Accreditation criteria for the competence of testing and calibration laboratories) China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE Registration No. CNAS L2954.

RB/T 214—2017 Competence assessment for inspection body and laboratory mandatory approval—General requirements for inspection body and laboratory Certification and Accreditation Administration of the People's Republic of China INSPECTION BODY AND LABORATORY MANDATORY APPROVAL Certificate No. CMA 180015144061.

#### 4 Identification of Test and Control Articles

#### 4.1 Test Article

itrile Examination Glo	ve		
in Plastic Technology	Co., Ltd		
Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen City,			
nce			
r			
rature			
oss contamination			
	in Plastic Technology ( s Industrial Zone, Qu'e nce	rature	

The information about the test article was supplied by the sponsor wherever applicable.

Report No.: SDWH-M202003265-2(E)

The Sponsor is responsible for all test article characterization data as specified in the GLP regulations.

#### 4.2 Control Article

#### 4.2.1 Negative Control

Article Name: 0.9% Sodium Chloride Injection (SC) Manufacturer: Guangxi Yuyuan Pharmaceutical Co., Ltd.

Size: 500mL

Lot/ Batch#: H20010204 Physical State: Liquid Color: Colorless

Storage Condition: Room Temperature

#### 4.2.2 Positive Control

Article Name: 2, 4-Dinitrochlorobenzene (DNCB)

Manufacturer: Chengdu Aikeda Chemical Reagent Co., Ltd.

Size: 100g

Lot/ Batch#: 201904101 Induction Concentration: 0.5% Challenge Concentration: 0.1%

Solvent: 0.9% Sodium Chloride Injection

Date prepared: Intradermal Induction Phase I:2020-06-08; Topical Induction Phase II: 2020-06-15;

Challenge Phase: 2020-06-29

Physical State: Liquid Color: Light Yellow

Storage Condition: Room Temperature

### 5 Equipment and Reagents

#### 5.1 Equipment

<b>Equipment Name</b>	<b>Equipment Number</b>	Calibration Expire
Horizontal Large Capacity Constant Temperature Vibrator	SDWH2671	2021-01-13
Vertical pressure steam sterilizer	SDWH2097	2021-03-25
Steel straight scale	SDWH463	2020-07-29
Electronic scale	SDWH442	2021-04-25

#### 5.2 Reagents

Reagent Name	Manufacturer	LOT
Freund's adjuvant, complete liquid	SIGMA	SLCC3348
Sodium dodecyl sulfate (SDS)	Sinopharm Chemical Reagent Co., Ltd	20181210

### 6 Identification of Test System

Species: Hartley guinea pig (Cavia Porcellus) Number: 15 (10 test +5 negative control)

Sex: Male

Initial body weight:  $300 \sim 500 \text{ g}$ 

Health status: healthy, not previously used in other experimental procedures

Housing: animals were housed in groups in cages identified by a card indicating the lab number,

test code and first treatment date, etc.

Animal identification: Stain with dyeing liquid

Cages: plastic cage

Acclimation period: 7 days under the same conditions as for the actual test

## 7 Animal Care and Maintenance

Animal source: Shanghai Jia Gan Biotechnology Co., Ltd. <Permit Code: SCXK (HU)

Report No.: SDWH-M202003265-2(E)

2015-0005>

Bedding: corncob, Suzhou Shuangshi Laboratory Animal Feed Science Co., Ltd.

Feed: guinea pig diet, Suzhou Experimental Animal Sci-Tech Co., Ltd.

Water: drinking water met the Standards for Drinking Water Quality GB 5749-2006

Animal room temperature: 18 ~ 26°C

Animal room relative humidity:  $30\% \sim 70\%$ 

Lights: 12 h light/dark cycle, full-spectrum lighting

Personnel: associates involved were appropriately qualified and trained

Selection: only healthy, previously unused animals were selected

There were no known contaminants present in the feed, water, or bedding expected to interfere

with the test data.

## 8 Justification of Test System and Route of Administration

The albino guinea pig has been used historically for sensitization studies (Magnusson and Kligman, 1970). The guinea pig is believed to be the most sensitive animal model for this type of study. The susceptibility of the guinea pig to a known sensitizing agent, 2,4-dinitrochlorobenzene (DNCB) has been substantiated at SDWH (listed in **Table 1** and **Table 2**).

The test article was extracted and administered in vivo through a medium compatible with the test system. Dermal application corresponds to the likely route of human exposure.

## 9 Experimental Design

## 9.1 Preparation of Extracts

#### 9.1.1 Pretreatment

Autoclaving at 121°C for 30 min.

#### 9.1.2 Extraction

Under aseptic conditions, samples were taken according to the sampling method (Random sampling). The extraction was performed with agitation in closed inert containers according to the extraction ratio listed in the following table (sample: extraction vehicle). The extraction vehicle was 0.9% Sodium Chloride Injection (SC).

Test Period	A atual Campling	Extr	Final		
Test Feriou	Actual Sampling	<b>Extract Ratio</b>	SC	Condition	Extract
Intradermal Induction Phase I	Surface area 120 cm <sup>2</sup>	6 cm <sup>2</sup> : 1 mL	20.0 mL	50°C, 72 h	Clear
Topical Induction Phase II	Surface area 120 cm <sup>2</sup>	$6 \text{ cm}^2$ : 1 mL	20.0 mL	50°C, 72 h	Clear
Challenge Phase	Surface area 120 cm <sup>2</sup>	$6 \text{ cm}^2: 1 \text{ mL}$	20.0 mL	50°C, 72 h	Clear

The state of the extract did not change after extraction. The extract was stored at room temperature, and tested within 24 h, without the process of adjusting its pH value, filtering, centrifuging, diluting, etc.

The vehicle (without the test article) was similarly prepared to serve as the control.

## 9.2 Experimental Procedure

### 9.2.1 Animal Preparation and Grouping

On the first day of treatment, 15 guinea pigs were weighed and identified. The fur from the dorsoscapular area of the animals was removed with an electric clipper. Grouping as follow:

Report No.: SDWH-M202003265-2(E)

Group Name	Group Size	Gender	
Test	10 animals	Male	
Negative Control	5 animals	Male	

#### 9.2.2 Intradermal Induction Phase I

A pair of 0.1 mL intradermal injections was made for each of the following, into each animal, at the injection sites (A, B and C) as shown in Figure 1 in the clipped intrascapular region.

Site A: A 50:50 (V/V) stable emulsion of Freund's complete adjuvant mixed with the chosen solvent.

Site B: the test sample (undiluted extract); the control animals were injected with the solvent alone.

Site C: the test sample at the concentration used at site B, emulsified in a  $50.50 \ (V/V)$  stable emulsion of Freund's complete adjuvant and the solvent (50%); the control animals were injected with an emulsion of the blank liquid with adjuvant.

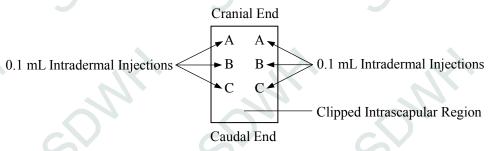


Figure 1 Locations of intradermal injection sites

## 9.2.3 Topical Induction Phase II

The maximum concentration that can be achieved in Intradermal induction phase I did not produce irritation. Animals are pretreated with 10% sodium dodecyl sulfate (Solvent: Distilled water, Date prepared: 2020-03-25) ( $24 \pm 2$ ) h before the topical induction application.

At  $7 \pm 1$  d after completion of the intradermal induction phase, administer 0.5 mL test article extract by topical application to the intrascapular region of each animal, using a patch of area approximately 8 cm<sup>2</sup> (absorbent gauze), so as to cover the intradermal injection sites. Secure the patches with an occlusive dressing. Remove the dressings and patches after  $(48 \pm 2)$  h.

Treat the control animals similarly, using the blank liquid alone.

### 9.2.4 Challenge Phase

At  $14 \pm 1$  d after completion of the topical induction phase, challenge all test and control animals with the test sample. Absorbent gauzes (2.5 cm  $\times$  2.5 cm) were soaked respectively with 0.5 mL test article and 0.5 mL control article. Apply the test article extract and control article topically to two sites that were not treated during the induction stage. Secure with an occlusive dressing. Remove the dressings and patches after (24  $\pm$  2) h.

### 9.3 Observation of Animals

Observe the appearance of the challenge skin sites of the test and control animals  $(24 \pm 2)$  h and  $(48 \pm 2)$  h after removal of the dressings. Full-spectrum lighting was used to visualize the skin reactions. Describe and grade the skin reactions for erythema and oedema according to the Magnusson and Kligman grading given in the following table for each challenge site and at each

time interval.

Magnusson and Kligman scale

Report No.: SDWH-M202003265-2(E)

Patch Test Reaction	Grading Scale
No visible change	0
Discrete or patchy erythema	1
Moderate and confluent erythema	2
Intense erythema and/or swelling	3

## 9.4 Evaluation of Results

Magnusson and Kligman grades of 1 or greater in the test group generally indicate sensitization, provided grades of less than 1 are seen in control animals.

If grades of 1 or greater are noted in control animals, then the reactions of test animals which exceed the most severe reaction in control animals are presumed to be due to sensitization.

If the response is equivocal, rechallenge is recommended to confirm the results from the first challenge.

The outcome of the test is presented as the frequency of positive challenge results in test and control animals.

## 10 Results

The results of skin reaction after challenge were listed in **Table 3**. No skin sensitization reaction was found in the skin of guinea pigs using extracts of the test article, and the positive rate of sensitization was 0%.

The positive rate of sensitization in the positive control group was 100%, listed in **Table 1**.

Clinical observations and weight changes of guinea pigs were listed in Table 4.

## 11 Conclusion

Under the conditions of this study, the test article extract showed no significant evidence of causing skin sensitization in the guinea pig.

## 12 Record Storage

All raw data pertaining to this study and a copy of the final report are to be retained in designated SDWH archive.

## 13 Confidentiality Agreement

Statements of confidentiality were as agreed upon prior to study initiation.

## 14 Deviation Statement

There were no deviations from the approved study protocol which were judged to have any impact on the validity of the data.

## Annex 1 Test Data

**Table 1** Guinea pig sensitization dermal reactions of positive control

Group	Animal Number	Befor II I	± 2) h e Phase Patch ication	Fol	± 2) h llowing enge Phase	Fol	± 2) h lowing nge Phase	Positive Rate after Challenge
		Left	Right	Test Sites	Control Sites	Test Sites	Control Sites	Phase
	1	2	3	1	0	2	0	
Positive	2	2	2	2	0	2	0	
Control	3	2	2	2	0	1	0	100%
Connoi	4	2	2	2	0	1	0	
	5	2	3	1	0	1	0	
	6	0	0	0	0	0	0	
<b>N</b> T .:	7	0	0	0	0	0	0	
Negative Control	8	0	0	0	0	0	0	-
Control	9	0	0	0	0	0	0	
	10	0	0	0	0	0	0	

Note: the data of positive control come from SDWH- M202002662-1 (Completed Date: 2020-07-03)

Table 2 Weigh change and clinical observation of positive control

	Animal -	Wei	ight (g)	Clinical Observation Event	
Group	Animal - Number	Before Injection	After Experiment	Clinical Observation Except Dermal Reactions	
	1	307	371	Normal	
Positive	2	348	428	Normal	
Control	3	329	407	Normal	
Collubi	4	355	440	Normal	
	5	311	379	Normal	
	6	324	396	Normal	
Magativa	7	347	433	Normal	
Negative Control	8	313	383	Normal	
Collifor	9	341	417	Normal	
	10	305	372	Normal	

Note: the data of positive control come from SDWH- M202002662-1 (Completed Date: 2020-07-03)

**Table 3** Guinea pig sensitization dermal reactions

		Table 5		oig selisi	uzanon dern	iai reactio	115	
Group	Before Animal II F		= 2) h = Phase atch cation	Fo	4 ± 2) h llowing enge Phase	Foll	± 2) h owing age Phase	Positive Rate after Challenge
		Left	Right	Test Sites	Control Sites	Test Sites	Control Sites	Phase
	1	0	0	0	0	0	0	
	2	0	0	0	0	0	0	
	3	0	0	0	0	0	0	
	4	0	0	0	0	0	0	
Toat	5	0	0	0	0	0	0	00/
Test	6	0	0	0	0	0	0	0%
	7	0	0	0	0	0	0	
	8	0	0	0	0	0	0	
	9	0	0	0	0	0	0	
	10	0	0	0	0	0	0	
	11	0	0	0	0	0	0	
Negative Control	12	0	0	0	0	0	0	
	13	0	0	0	0	0	0	-
	14	0	0	0	0	0	0	
	15	0	0	0	0	0	0	

 Table 4
 Weigh change and clinical observation

	Animal -		ght (g)	
Group	Animal – Number	Before Injection	After Experiment	- Clinical Observation Except Dermal Reactions
	1	339	414	Normal
	2	322	392	Normal
	3	353	441	Normal
	4	352	440	Normal
Test	5	322	398	Normal
Test	6	308	370	Normal
	7	356	440	Normal
	8	349	439	Normal
	9	333	413	Normal
	10	319	387	Normal
	11	337	416	Normal
Magativa	12	343	430	Normal
Negative	13	353	439	Normal
Control	14	316	383	Normal
	15	312	376	Normal

# **Annex 2** Photograph of Test Article



# Information Provided by Sponsor

Report No.: SDWH-M202003265-2(E)

## 1 Production Process

Not supplied by sponsor.

### 2 Other Information

Not supplied by sponsor.

End of Report







# **Final Report**

Report Number: SDWH-M202003265-3(E)

# Skin Sensitization Test of Disposable Nitrile Examination Glove

According to ISO 10993-10:2010 Guinea Pig Maximization Test Sesame Oil Extract

Sponsor: Shanxi Hongjin Plastic Technology Co., Ltd

Address: Coal Bed Gas Industrial Zone, Qu'e Town, Daning County,

Linfen City, Shanxi Province



Sanitation & Environment Technology Institute, Soochow University

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# Supplementary Explanation

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- (1) Please apply for rechecking within 15 days of receiving the report if there are any objections.
- (2) Any erasure or without special inspection and testing seal renders the report null and void.
- (3) The report is only valid when signed by the persons who edited, checked and approved it.
- (4) The results relate only to the articles tested.
- (5) The report shall not be reproduced except in full without the written approval of the institute.

## **Quality Assurance Statement**

Report No.: SDWH-M202003265-3(E)

The Quality Assurance Unit inspected/audited this study in compliance with the following GLP regulations:

Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA). The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

The Quality Assurance Unit conducted inspections on the following dates. The findings were reported to the Study Director and to the Testing Facility Management. The final report was reviewed by the Quality Assurance Unit. The final report accurately describes the test methods in accordance with standard operating procedures, and the results are consistent with raw data of non-clinical studies conducted according to the study protocol.

Inspections	Inspections Date of Inspection		Date Reported to Testing Facility Management.
Study Protocol	2020-06-30	2020-06-30	2020-08-18
Study Procedure	2020-07-24 2020-07-28	2020-07-24 2020-07-28	2020-08-18
Raw Data	2020-08-18	2020-08-18	2020-08-18
Final Report	2020-08-18	2020-08-18	2020-08-18

Quality Assurance Unit: Zou Jing 2020-08-18

Quality Assurance Date

# **GLP Compliance Statement**

Report No.: SDWH-M202003265-3(E)

This study was fully in accordance with the technical requirements of the study protocol.

This study was conducted in compliance with Good Laboratory Practice (GLP) Regulation 21 CFR Part 58, U.S. Food and Drug Administration (FDA).

The laboratory is exempt from the following provisions: 21 CFR Part 58.105 Test and Control Article Characterization, and Part 58.113 Mixtures of Articles with Carriers.

# **Verification Dates**

Test Article Receipt	2020-06-23
<b>Protocol Effective Date</b>	2020-06-30
<b>Technical Initiation Date</b>	2020-06-30
<b>Technical Completion Date</b>	2020-07-31
Final Report Completion Date	2020-08-18

Edited by: Wang Deheng 2020-08-17

Date

Reviewed by: 2020-08-18

Study Director Date

Approved by: tanging > 1 2020-08-18

Authorized Signatory Date

Sanitation & Environment Technology Institute, Soochow

## **Summary**

Report No.: SDWH-M202003265-3(E)

## 1 Test Article

<b>Test Article Name</b>	Disposable Nitrile Examination Glove
Manufacturer	Shanxi Hongjin Plastic Technology Co., Ltd
Address	Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfen City, Shanxi Province
Model	Not supplied by sponsor (N/S)
Lot/Batch	N/S

## 2 Main Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

## 3 Test Method

Potential skin sensitization of test article was evaluated using guinea pig maximization test in accordance with ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization.

Study protocol number: SDWH-PROTOCOL-GLP-M202003265-3.

## 4 Conclusion

Under the conditions of this study, the test article extract showed no significant evidence of causing skin sensitization in the guinea pig. The positive rate of sensitization was 0%. No evidence of skin sensitization in guinea pigs was found.

## **Test Report**

Report No.: SDWH-M202003265-3(E)

## 1 Purpose

The test was designed to evaluate the potential of a test article to cause skin sensitization. The test is used as a procedure for screening of contact allergens in guinea pigs and extrapolating the results to humans, but it does not establish the actual risk of sensitization.

## 2 Reference

ISO 10993-10:2010 Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization

ISO 10993-12:2012 Biological evaluation of medical devices — Part 12: Sample preparation and reference materials

ISO 10993-2:2006 Biological evaluation of medical devices — Part 2: Animal welfare requirements

## 3 Compliance

Good Laboratory Practice Regulations, 21 CFR, Part 58.

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories (CNAS—CL01 Accreditation criteria for the competence of testing and calibration laboratories) China National Accreditation Service for Conformity Assessment LABORATORY ACCREDITATION CERTIFICATE Registration No. CNAS L2954.

RB/T 214—2017 Competence assessment for inspection body and laboratory mandatory approval—General requirements for inspection body and laboratory Certification and Accreditation Administration of the People's Republic of China INSPECTION BODY AND LABORATORY MANDATORY APPROVAL Certificate No. CMA 180015144061.

## 4 Identification of Test and Control Articles

#### 4.1 Test Article

Disposable Nitrile Exan	nination Glove		
Shanxi Hongjin Plastic	Technology Co., Ltd		
Coal Bed Gas Industrial	I Zone, Qu'e Town, I	Daning County, Linfer	City,
Shanxi Province			
Not Sterilized			
N/S			
N/S			
M			
N/S			
nitrile			
N/S			
pieces			
blue			
N/S			
N/S			
N/S			
Room Temperature			
to prevent cross contam	ination		
	Shanxi Hongjin Plastic Coal Bed Gas Industrial Shanxi Province Not Sterilized N/S N/S M N/S nitrile N/S pieces blue N/S N/S N/S N/S N/S Room Temperature	Shanxi Province Not Sterilized N/S N/S N/S M N/S nitrile N/S pieces blue N/S N/S N/S N/S	Shanxi Hongjin Plastic Technology Co., Ltd Coal Bed Gas Industrial Zone, Qu'e Town, Daning County, Linfer Shanxi Province Not Sterilized N/S N/S M N/S nitrile N/S pieces blue N/S N/S N/S N/S N/S Room Temperature

The information about the test article was supplied by the sponsor wherever applicable.

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The Sponsor is responsible for all test article characterization data as specified in the GLP regulations.

### 4.2 Control Article

## 4.2.1 Negative Control

Article Name: Sesame oil (SO).

Manufacturer: Ji'an Qingyuan District luyuanxiangliao. Co. Ltd

Size: 5kg

Lot/ Batch#: 20200312 Physical State: Oily liquid

Color: Pale yellow

Storage Condition: Room Temperature

#### 4.2.2 Positive Control

Article Name: 2, 4-Dinitrochlorobenzene (DNCB)

Manufacturer: Chengdu Aikeda Chemical Reagent Co., Ltd.

Size: 100g

Lot/ Batch#: 201904101 Induction Concentration: 0.5% Challenge Concentration: 0.1%

Solvent: Sesame oil

Date prepared: Intradermal Induction Phase I: 2020-06-08; Topical Induction Phase II: 2020-06-15;

Challenge Phase: 2020-06-29

Physical State: Liquid Color: Light Yellow

Storage Condition: Room Temperature

## 5 Equipment and Reagents

## 5.1 Equipment

Equipment Name	<b>Equipment Number</b>	Calibration Expire
Horizontal Large Capacity Constant Temperature Vibrator	SDWH2671	2021-01-13
Vertical pressure steam sterilizer	SDWH2097	2021-03-25
Steel straight scale	SDWH463	2020-07-29
Electronic scale	SDWH442	2021-04-25

## 5.2 Reagents

Reagent Name	Manufacturer	LOT
Freund's adjuvant, complete liquid	SIGMA	SLCC3348
Sodium dodecyl sulfate (SDS)	Sinopharm Chemical Reagent Co., Ltd	20181210

## 6 Identification of Test System

Species: Hartley guinea pig (Cavia Porcellus) Number: 15 (10 test +5 negative control)

Sex: Male

Initial body weight:  $300 \sim 500 \text{ g}$ 

Health status: healthy, not previously used in other experimental procedures

Housing: animals were housed in groups in cages identified by a card indicating the lab number,

test code and first treatment date, etc.

Animal identification: Stain with dyeing liquid

Cages: plastic cage

Acclimation period: 7 days under the same conditions as for the actual test

## 7 Animal Care and Maintenance

Animal source: Shanghai Jia Gan Biotechnology Co., Ltd. <Permit Code: SCXK (HU)

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2015-0005>

Bedding: corncob, Suzhou Shuangshi Laboratory Animal Feed Science Co., Ltd.

Feed: guinea pig diet, Suzhou Experimental Animal Sci-Tech Co., Ltd.

Water: drinking water met the Standards for Drinking Water Quality GB 5749-2006

Animal room temperature: 18 ~ 26°C

Animal room relative humidity:  $30\% \sim 70\%$ 

Lights: 12 h light/dark cycle, full-spectrum lighting

Personnel: associates involved were appropriately qualified and trained

Selection: only healthy, previously unused animals were selected

There were no known contaminants present in the feed, water, or bedding expected to interfere

with the test data.

## 8 Justification of Test System and Route of Administration

The albino guinea pig has been used historically for sensitization studies (Magnusson and Kligman, 1970). The guinea pig is believed to be the most sensitive animal model for this type of study. The susceptibility of the guinea pig to a known sensitizing agent, 2,4-dinitrochlorobenzene (DNCB) has been substantiated at SDWH (listed in **Table 1** and **Table 2**).

The test article was extracted and administered in vivo through a medium compatible with the test system. Dermal application corresponds to the likely route of human exposure.

## 9 Experimental Design

## 9.1 Preparation of Extracts

#### 9.1.1 Pretreatment

Autoclaving at 121°C for 30 min.

#### 9.1.2 Extraction

Under aseptic conditions, samples were taken according to the sampling method (Random sampling). The extraction was performed with agitation in closed inert containers according to the extraction ratio listed in the following table (sample: extraction vehicle). The extraction vehicle was SO.

Test Period	A atual Camplina	Extr	Final		
Test Feriou	Actual Sampling	Extract Ratio	SO	Condition	Extract
Intradermal Induction Phase I	Surface area 120 cm <sup>2</sup>	6 cm <sup>2</sup> : 1 mL	20.0 mL	50°C, 72 h	Clear
Topical Induction Phase II	Surface area 120 cm <sup>2</sup>	$6 \text{ cm}^2: 1 \text{ mL}$	20.0 mL	50°C, 72 h	Clear
Challenge Phase	Surface area 120 cm <sup>2</sup>	$6 \text{ cm}^2: 1 \text{ mL}$	20.0 mL	50°C, 72 h	Clear

The state of the extract did not change after extraction. The extract was stored at room temperature, and tested within 24 h, without the process of adjusting its pH value, filtering, centrifuging, diluting, etc.

The vehicle (without the test article) was similarly prepared to serve as the control.

## 9.2 Experimental Procedure

### 9.2.1 Animal Preparation and Grouping

On the first day of treatment, 15 guinea pigs were weighed and identified. The fur from the dorsoscapular area of the animals was removed with an electric clipper. Grouping as follow:

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Group Name	Group Size	Gender	
Test	10 animals	Male	
Negative Control	5 animals	Male	

#### 9.2.2 Intradermal Induction Phase I

A pair of 0.1 mL intradermal injections was made for each of the following, into each animal, at the injection sites (A, B and C) as shown in Figure 1 in the clipped intrascapular region.

Site A: A 50:50 (V/V) stable emulsion of Freund's complete adjuvant mixed with the chosen solvent.

Site B: the test sample (undiluted extract); the control animals were injected with the solvent alone.

Site C: the test sample at the concentration used at site B, emulsified in a  $50:50 \ (V/V)$  stable emulsion of Freund's complete adjuvant and the solvent (50%); the control animals were injected with an emulsion of the blank liquid with adjuvant.

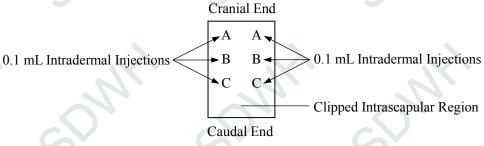


Figure 1 Locations of intradermal injection sites

## 9.2.3 Topical Induction Phase II

The maximum concentration that can be achieved in Intradermal induction phase I did not produce irritation. Animals are pretreated with 10% sodium dodecyl sulfate (Solvent: Distilled water, Date prepared: 2020-03-25) ( $24 \pm 2$ ) h before the topical induction application.

At  $7 \pm 1$  d after completion of the intradermal induction phase, administer 0.5 mL test article extract by topical application to the intrascapular region of each animal, using a patch of area approximately 8 cm<sup>2</sup> (absorbent gauze), so as to cover the intradermal injection sites. Secure the patches with an occlusive dressing. Remove the dressings and patches after  $(48 \pm 2)$  h.

Treat the control animals similarly, using the blank liquid alone.

## 9.2.4 Challenge Phase

At  $14 \pm 1$  d after completion of the topical induction phase, challenge all test and control animals with the test sample. Absorbent gauzes (2.5 cm  $\times$  2.5 cm) were soaked respectively with 0.5 mL test article and 0.5 mL control article. Apply the test article extract and control article topically to two sites that were not treated during the induction stage. Secure with an occlusive dressing. Remove the dressings and patches after (24  $\pm$  2) h.

### 9.3 Observation of Animals

Observe the appearance of the challenge skin sites of the test and control animals  $(24 \pm 2)$  h and  $(48 \pm 2)$  h after removal of the dressings. Full-spectrum lighting was used to visualize the skin reactions. Describe and grade the skin reactions for erythema and oedema according to the Magnusson and Kligman grading given in the following table for each challenge site and at each

time interval.

Magnusson and Kligman scale

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Patch Test Reaction	Grading Scale
No visible change	0
Discrete or patchy erythema	1
Moderate and confluent erythema	2
Intense erythema and/or swelling	3

## 9.4 Evaluation of Results

Magnusson and Kligman grades of 1 or greater in the test group generally indicate sensitization, provided grades of less than 1 are seen in control animals.

If grades of 1 or greater are noted in control animals, then the reactions of test animals which exceed the most severe reaction in control animals are presumed to be due to sensitization.

If the response is equivocal, rechallenge is recommended to confirm the results from the first challenge.

The outcome of the test is presented as the frequency of positive challenge results in test and control animals.

## 10 Results

The results of skin reaction after challenge were listed in **Table 3**. No skin sensitization reaction was found in the skin of guinea pigs using extracts of the test article, and the positive rate of sensitization was 0%.

The positive rate of sensitization in the positive control group was 100%, listed in **Table 1**.

Clinical observations and weight changes of guinea pigs were listed in Table 4.

## 11 Conclusion

Under the conditions of this study, the test article extract showed no significant evidence of causing skin sensitization in the guinea pig.

## 12 Record Storage

All raw data pertaining to this study and a copy of the final report are to be retained in designated SDWH archive.

## 13 Confidentiality Agreement

Statements of confidentiality were as agreed upon prior to study initiation.

## 14 Deviation Statement

There were no deviations from the approved study protocol which were judged to have any impact on the validity of the data.

## **Annex 1** Test Data

 Table 1
 Guinea pig sensitization dermal reactions of positive control

Group	Animal Number	(24 ± 2) h Before Phase II Patch Application		(24 ± 2) h Following Challenge Phase		(48 ± 2) h Following Challenge Phase		Positive Rate after Challenge
		Left	Right	Test Sites	Control Sites	Test Sites	Control Sites	Phase
	1	1	2	1	0	2	0	
Dogitivo	2	2	2	2	0	2	0	
Positive Control	3	2	1	1	0	2	0	100%
Control	4	2	2	2	0	1	0	
	5	2	3	2	0	1	0	
	6	0	0	0	0	0	0	
Manatina	7	0	0	0	0	0	0	
Negative Control	8	0	0	0	0	0	0	-
Colluloi	9	0	0	0	0	0	0	
	10	0	0	0	0	0	0	

Note: the data of positive control come from SDWH- M202002662-2 (Completed Date: 2020-07-03)

Table 2 Weigh change and clinical observation of positive control

	Animal -	Wei	ight (g)	Clinical Observation Event	
Group	Number	Before Injection	After Experiment	Clinical Observation Except Dermal Reactions	
	1	341	417	Normal	
Dazition	2	345	431	Normal	
Positive Control	4		448	Normal	
	4	311	375	Normal	
	5	354	447	Normal	
	6	335	414	Normal	
Negative Control	7	319	389	Normal	
	8	336	416	Normal	
	9	356	441	Normal	
	10	343	429	Normal	

Note: the data of positive control come from SDWH- M202002662-2 (Completed Date: 2020-07-03)

 Table 3
 Guinea pig sensitization dermal reactions

		Table 5	Guinea	oig schsi	tization dem	iai icaciio	113	
Group	Animal Number			Fo	4 ± 2) h llowing enge Phase	Foll	± 2) h owing ige Phase	Positive Rate after Challenge
		Left	Right	Test Sites	Control Sites	Test Sites	Control Sites	Phase
K .	1	0	0	0	0	0	0	
	2	0	0	0	0	0	0	
	3	0	0	0	0	0	0	
	4	0	0	0	0	0	0	
Tr	5	0	0	0	0	0	0	00/
Test	6	0	0	0	0	0	0	0%
	7	0	0	0	0	0	0	
	8	0	0	0	0	0	0	
	9	0	0	0	0	0	0	
	10	0	0	0	0	0	0	
	11	0	0	0	0	0	0	
	12	0	0	0	0	0	0	
Negative	13	0	0	0	0	0	0	_
Control	14	0	0	0	0	0	0	
	15	0	0	0	0	0	0	

 Table 4
 Weigh change and clinical observation

	Animal		ght (g)		
Group	Animal — Number	Before Injection	After Experiment	Clinical Observation Except Dermal Reactions	
	1	318	387	Normal	
	2	346	434	Normal	
	3	320	388	Normal	
	4	328	404	Normal	
Test	5	314	386	Normal	
	6	333	411	Normal	
	7	319	386	Normal	
	8	343	424	Normal	
	9	330	400	Normal	
	10	333	406	Normal	
	11	315	379	Normal	
Negative Control	12	341	426	Normal	
	13	350	431	Normal	
	14	337	415	Normal	
	15	309	371	Normal	

# **Annex 2** Photograph of Test Article



# Information Provided by Sponsor

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## 1 Production Process

Not supplied by sponsor.

### 2 Other Information

Not supplied by sponsor.

End of Report