



GLP STUDY REPORT

Date :2022-05-09
No. : DY22030302

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TEST FACILITY

STC (Dongguan) Company Limited
68 Fumin Nan Road,
Dalang, Dongguan, Guangdong,
China. (Zip code 523770)

SPONSOR

Boston Industrial Solutions, Inc.
21 Cummings Park Dr. #272
Woburn, MA 01801, USA

CONFIDENTIAL

STUDY TITLE

Skin Irritation Test of Silicone rubber coated with
Natron STC370HP SC45X SC & Natron STC370HP
SC45X SF using ISO 10993-10:2010 Test Methods skin
irritation Test, 0.9% Sodium Chloride Injection and
Sesame oil Extract

TEST ARTICLE NAME

Silicone rubber coated with Natron STC370HP SC45X
SC & Natron STC370HP SC45X SF

TEST ARTICLE IDENTIFICATION

CP-MD-4844
CSD NO.: CL20220303902

STC (Dongguan) Company Limited

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Summary

The test article, Silicone rubber coated with Natron STC370HP SC45X SC & Natron STC370HP SC45X SF, was evaluated for primary skin irritation in rabbits. This study was conducted based on the requirements of ISO 10993-10, Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization (2010). The test articles were extracted in 0.9% sodium chloride injection and Sesame oil. Two 2.5 cm × 2.5 cm sections of absorbent gauze patches with 0.5 mL test extracts/ control extracts were topically applied to the skin of each of three rabbits and left in place for 4 hours. The sites were graded for erythema and edema at 1, 24, 48 and 72 hours after removal of the single application.

There was no erythema and no edema observed on the skin of the animals treated with the test extracts. The Primary Irritation Index for the test extracts was calculated to be 0.0. The response of the test article was categorized as negligible.

Study Director Approval:

Colin Mo

Test Facility Management
Approval:

Yena Zhuang



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Statement of GLP Compliance

There were no deviations to the provisions of the FDA Good Laboratory Practice (GLP) Regulations (21 CFR, Part 58) and OECD Series on Principles of Good Laboratory Practice (GLP). noted during the course of the study.

A handwritten signature in black ink that reads 'Colin'.

Study Director:

Colin Mo

2022.05.09

Date

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1. Introduction

1.1 Purpose

The purpose of this study was to evaluate the test article for the potential to cause skin irritation in the rabbit.

1.2 Testing Guidelines

This study was based on the requirements of the International Organization for Standardization 10993-10, Biological evaluation of medical devices - Part 10: Tests for irritation and skin sensitization (2010).

1.3 Dates

Test Article Received:	2022.03.23
Treatment Started:	2022.04.08
Observations Concluded:	2022.04.14

1.4 GLP Compliance

The study initiated by protocol signature on 2022.03.31 was conducted in accordance with the provisions of the FDA Good Laboratory Practice (GLP) Regulations, 21 CFR 58 and OECD Series on Principles of Good Laboratory Practice (GLP). A Statement of Quality Assurance Activities was issued with this report.

2. Identification of Test and Control Articles

The test article provided by the sponsor was identified and handled as described below:

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Table 1 - Test Article

Name	Silicone rubber coated with Natron STC370HP SC45X SC & Natron STC370HP SC45X SF
Size	12cm x 2 cm x 2/12cm x 2 cm x 2
CAS	N/A
Model	STC 370HP
Lot	STC370HP020121 MFG 129021B
Initial State	Not Sterilized
Strength, Purity and Composition	Silicone rubber coated with STC 370HP
Color	Translucent
Physical Description of the Test Article	Solid
Manufacture Date	2021.09.02
Expiration Date	2025.08.02 CURED ITEM DOES NOT EXPIRE

Table 2 - Negative Control Article

Name	0.9% Sodium chloride injection (SC) Sesame oil(SO)
Purity, Composition, and Other Characteristics	SC: Composition: 0.9% NaCl of label claim, balance is water; sodium chloride CAS No.: 7647-14-5/water CAS No.: 7732-18-5 SO: Composition: CAS No.: 8008-74-0

Table 3 - Reagents

Name	Brand	Lot
SC	GUANGXIYUYUAN	H21122007
SO	HENRY LAMOTTE	1000015882

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3. Test System

3.1 Test System

Species:	Rabbit (<i>Oryctolagus cuniculus</i>)
Strain:	New Zealand White
Source:	Guangzhou huadu district huadongxinhua animal farm
Sex:	Male and Female(Females were nulliparous and nonpregnant)
Age:	Young adult
Acclimation Period:	Minimum 5 days
Number of Animals:	6
Identification Method:	Name Card

3.2 Test System Management

The rabbit (animal) is specified as an appropriate animal model for evaluating potential skin irritants by the current ISO testing standards. The rabbit is widely used for this purpose and relative ranking of irritant scores can be determined.

4. Facility & Personnel

4.1 Facility

DGMD Rabbit room
STC (Dongguan)
68 Fumin Nan Road, Dalang,
Dongguan, Guangdong,
China. (Zip code 523770)

4.2 Personnel

Associates involved in this study was appropriately qualified and trained.
Test Facility Management: Yena Zhuang
Study Director: Colin Mo
Quality Assurance Unit: Jason Huang
Veterinary: Cassie Lin
Technicians: White Bai

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5. Animal Management

5.1 Husbandry, Housing and Environment

Conditions conformed to STC Standard Operating Procedures. Animals were housed in groups in stainless steel or plastic suspended cages identified by a card indicating the animal numbers, test code, sex, animal code and date dosed.

The animal housing room is conventional system lab. The lab animal using license: SYXK(Guangdong province)2019-0159. The animal housing room temperature and relative humidity were monitored daily. The temperature for the room was set to 18-26°C and the relative humidity was set to 40-70%. There were no significant temperature or relative humidity excursions that adversely affected the health of the animals.

The light cycle was controlled (12 hours light, 12 hours dark).

5.2 Food, Water and Contaminants

Food: Laboratory animal formula feed (rabbit), Jiangsu Xietong Pharmaceutical Bio-engineering Co., Ltd., was provided daily.

Water: The water quality met the "Sanitary standard for drinking water" (GB5749-2006)

Food and water meet animal welfare requirements. No contaminants present in the feed and water impacted the results of this study.

5.3 Personnel

Associates involved in this study were appropriately qualified and trained.

5.4 Veterinary Care

Standard veterinary medical care was provided in this study.

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5.5 IACUC

This procedure has been approved by the STC Institutional Animal Care and Use Committee (IACUC), and is reviewed at least annually by the same committee.

5.6 Selection

Only healthy, animals free from irritation or other dermatological lesions that could interfere with the test were selected.

6. Method (DGMD-DOP-EXP-010-2A and DGMD-DOP-EXP-028-2A)

6.1 Test and Control Article Preparation

The test articles were measured and calculated. The preparations of the test article and the negative control were subjected to the extraction conditions as described below. The extracts were continuously agitated during extraction.

Table 4 - Extraction

Vehicle	Treatment Group	Extraction Ratio	Article Amount	Volume of Vehicle	Extraction Condition
SC	Test	6 cm ³ mL	54 cm ²	9 mL	50±2 °C for 72±2 h
	Control	N/A	N/A	20 mL	
SO	Test	6 cm ³ mL	54 cm ²	9 mL	
	Control	N/A	N/A	20 mL	

The following table contains a description of the test and control article extracts before and after extraction.

Table 5 - Condition of Extracts

Vehicle	Time Observed	Extract	Condition of Extracts		
			Color	Clarity	Particulates
SC	Before Extraction	Test	Colorless	Clear	None
		Control	Colorless	Clear	None

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Vehicle	Time Observed	Extract	Condition of Extracts		
			Color	Clarity	Particulates
	After Extraction	Test	Colorless	Clear	None
		Control	Colorless	Clear	None
	Prior to Use	Test	Colorless	Clear	None
		Control	Colorless	Clear	None
SO	Before Extraction	Test	Colorless	Oily	None
		Control	Colorless	Oily	None
	After Extraction	Test	Colorless	Oily	None
		Control	Colorless	Oily	None
	Prior to Use	Test	Colorless	Oily	None
		Control	Colorless	Oily	None

The extracts were maintained at ambient temperature <24 hours before use for all phases. The extracts were not centrifuged, filtered, or otherwise altered prior to dosing.

6.2 Test Procedure

The animals were weighed and the fur on the back of each animal was clipped with an electric clipper 18 hours prior to treatment. On the day of treatment, four sites, two on each side of the back and positioned cranially and caudally, were designated on each animal. The sites were free of blemishes that could interfere with the interpretation of results. The appropriate extracts were applied to the 2.5 cm × 2.5 cm absorbent gauze patches. 0.5 mL extract was used to saturate the gauze. A control patch of gauze moistened with the extract vehicle was applied as well. And then all the application sites were covered with a bandage (semi-occlusive or occlusive) for a minimum of 4 h. Animals were returned to their cages after treatment. After the 4-hour exposure, the binders, tape, and patches were removed. The sites were gently wiped with a gauze sponge dampened with deionized water in an attempt to remove any remaining residue.

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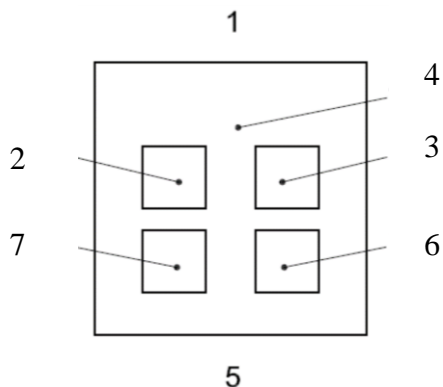
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Key

- | | |
|-------------------------|----------------|
| 1 cranial end | 5 caudal end |
| 2 test site | 6 test site |
| 3 control site | 7 control site |
| 4 clipped dorsal region | |

6.2.1 Laboratory Observations

1. Animals were observed daily for general health.
2. Body weights were recorded for each animal at pretreatment.
3. Dermal observations for erythema and edema were recorded at 1, 24, 48 and 72 hours after patch removal in accordance with the criteria in Appendix 1.

Table 6 - Classification System for Skin Reaction

Erythema and Eschar Formation	Numerical Grading	Edema Formation	Numerical Grading
No erythema	0	No edema	0
Very slight erythema (barely perceptible)	1	Very slight edema (barely perceptible)	1
Well-defined erythema	2	Well-defined edema (edges of area well-defined by definite raising)	2
Moderate erythema	3	Moderate edema (raised approximately 1 mm)	3
Severe erythema (beet redness) to eschar formation preventing grading of erythema	4	Severe edema (raised more than 1 mm and extending beyond exposure area)	4
Total possible score for irritation			8

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Table 7- Irritation Response Categories in the Rabbit

Irritation Response Categories in the Rabbit	
Response Category	Mean Score
Negligible	0-0.4
Slight	0.5-1.9
Moderate	2.0-4.9
Severe	5-8

All times and temperatures reported herein are approximate and are within ranges established by the external standards described in the References section of this report and/or STC standard operating procedures.

7. Evaluation

The Primary Irritation Index of the test was calculated following test completion for each animal. The erythema and edema scores obtained at the 24, 48 and 72-hour intervals were added together and divided by the total number of observations. This calculation was conducted separately for the test and control article for each animal. The score for the control was subtracted from the score for the test article to obtain the Primary Irritation Score. The Primary Irritation Score for each animal was added together and divided by the number of animals to obtain the Primary Irritation Index. The Primary Irritation Index was characterized based on the definitions.

8. Results

All the animals were clinically normal throughout the study. Individual results of dermal scoring are presented in Appendix 1. No irritation was observed on the skin of the animals. The Primary Irritation Index of the test article was calculated to be 0.0. The irritation calculations are shown below:

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Table 8 - Irritation Calculations of SC group

Animal Number	Test Score Average	Control Score Average	Individual Primary Irritation Score	Combined Primary Irritation Score (CPIS)	Primary Irritation Index (CPIS/3)	Response Category
2021120920	0	0	0	0	0	Negligible
2022011321	0	0	0			
2022011317	0	0	0			

Table 9 - Irritation Calculations of SO group

Animal Number	Test Score Average	Control Score Average	Individual Primary Irritation Score	Combined Primary Irritation Score (CPIS)	Primary Irritation Index (CPIS/3)	Response Category
2021120924	0	0	0	0	0	Negligible
2021122139	0	0	0			
2021122141	0	0	0			

9. Conclusion

There was no erythema and no edema observed on the skin of the animals treated with the test article. The Primary Irritation Indexes for the test article extracts were both calculated to be 0.0. The response of the test article extracts was categorized as negligible.

Results and conclusions apply only to the test article tested. Any extrapolation of these data to other articles is the sponsor's responsibility.

10. Quality Assurance

Inspections were conducted at intervals adequate to assure the integrity of the study in conformance with 21 CFR 58.35(b)(3) and OECD Series on Principles of Good Laboratory Practice (GLP) No 4: Quality Assurance and GLP. The final report was reviewed for

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conformance to Section 58.185, Subpart J, of the GLP Regulations and OECD Series on Principles of Good Laboratory Practice (GLP). A Statement of Quality Assurance Activities was issued with the report.

11. Records

All raw data pertaining to this study and a copy of the final report are retained in designated STC archive files in accordance with STC SOPs. All of the files was storage in DGSTC MD Archiving room.

This includes:

- ✓ Agreement of Medical Devices Testing including the Study director assignment (DGMD/888/01 Rev04)
- ✓ Study plan and study plan training record (DGMD-FORM-OAP-001-2A and DGMD-FORM-OAP-002-2A)
- ✓ Final report
- ✓ All raw data and observations(DGMD-FORM-EXP-010-2A and DGMD-FORM-EXP-028-1-2A)
- ✓ Samples of test and reference items and test sample login form (DGMD-FORM-ART-001-2B)
- ✓ The Records of test system management: Animal quarantine (DGMD-FORM-ANI-002-2A and DGMD-FORM-ANI-003-2A)
- ✓ The Records of test system usage: Animal quality certificate and Animal ethical review records (DGMD-FORM-ANI-001-2A)
- ✓ Records of critical reagent: Saline and Oil (DGMD-FORM-MAT-001-2A)
- ✓ Records of all inspections performed by Quality Assurance Program (DGMD-FORM-QAU-002-2A and DGMD-FORM-COE-004-2A)
- ✓ All relevant correspondence/communication (especially for multi- site studies)
- ✓ Records of qualifications training, experience and job descriptions of personnel in the study (this will be archived in Personnel technical file)

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- ✓ Records and reports of the maintenance and calibration of apparatus (this will be archived in the equipment file)
- ✓ Validation documentation for computerized systems (this will be archived in the equipment file)
- ✓ Master schedules in use at the time of the study (this will be archived in the facility management file)
- ✓ Historical file of all Standard Operating Procedures (this will be archived in the facility management file)
- ✓ Environmental monitoring records (this will be archived in the animal lab management file)

12. ISO Compliance

All procedures were compliance to ISO 17025.

13. References

Code of Federal Regulations (CFR), Title 21, Part 58, Good Laboratory Practice for Nonclinical Laboratory Studies

OECD Series on Principles of Good Laboratory Practice (GLP)

International Organization for Standardization (ISO) 10993-1, Biological evaluation of medical devices -Part 1: Evaluation and testing within a risk management process (2018).

International Organization for Standardization (ISO) 10993-2, Biological evaluation of medical devices -Part 2: Animal welfare requirements (2006).

International Organization for Standardization (ISO) 10993-10, Biological evaluation of medical devices -Part 10: Tests for irritation and skin sensitization (2010).

International Organization for Standardization (ISO) 10993-12, Biological evaluation of medical devices -Part 12: Sample preparation and reference materials (2021).

International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 17025, General requirements for the competence of testing and calibration laboratories (2017).

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Appendix 1 – Dermal Observations

Table 10 - Dermal Observations of SC group

Animal number	Weight (g)	Group	Observation	Interval (hours)			
				1	24	48	72
20211209 20	3697.9	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0
20220113 21	3667.5	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0
20220113 17	3344.8	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0

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Table 11- Dermal Observations of SO group

Animal number	Weight (g)	Group	Observation	Interval (hours)			
				1	24	48	72
20211209 24	3833.1	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0
20211221 39	4036.3	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0
20211221 41	3953.3	Test	Erythema	0	0	0	0
			Edema	0	0	0	0
		Control	Erythema	0	0	0	0
			Edema	0	0	0	0

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Appendix 2 - Periodic Positive Control Study for Primary Skin Irritation Test

What was tested:

Sodium dodecyl sulfate (SDS) (Brand: Macklin, Lot:C12089309)

Dates:

Treatment Started: 2022.02.14

Observations Concluded: 2022.02.17

Purpose:

A periodic positive control study of within three months was conducted for the Primary Skin Irritation Test to meet the following objectives: 1) confirm the methodology in ISO 10993-10:2010, Biological Evaluation of Medical Devices - Part 10: Tests for Irritation and Skin Sensitization, 2) substantiate the potential of SDS to cause irritant effects, 3) verify proper training of the technicians performing these studies, and 4) substantiate the susceptibility of the rabbit strain to primary skin irritation test.

Methods:

The test utilized young adult, 3 male rabbits supplied by Guangzhou huadu district Huadong xinhua animal farm. The weight at study initiation ranged from 2kg to 4kg. Two 25 mm x 25 mm sections of absorbent gauze patches with 0.5ml 20% (w/w) concentration of SDS was topically applied to the skin of each of three rabbits and left in place for 4 hours. The sites were graded for erythema and edema at 1, 24, 48 and 72 hours after removal of the single application.

Results:

All of the three sites demonstrated a positive skin irritation to the known skin irritant, SDS. None of the control sites of animals demonstrated an irritation response. The Irritation Calculations are shown below:

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Animal Number	Test Score Average	Control Score Average	Individual Primary Irritation Score	Combined Primary Irritation Score (CPIS)	Primary Irritation Index (CPIS/3)	Response Category
2021120916	8	0	8	24	8	Severe
2021120908	8	0	8			
2021072903	8	0	8			

Conclusion:

The known skin irritant SDS produced evidence of causing primary skin irritation in the New Zealand White strain of rabbit. Therefore, the following objectives were met: 1) the methodology in ISO 10993-10:2010, Biological Evaluation of Medical Devices, Part 10:

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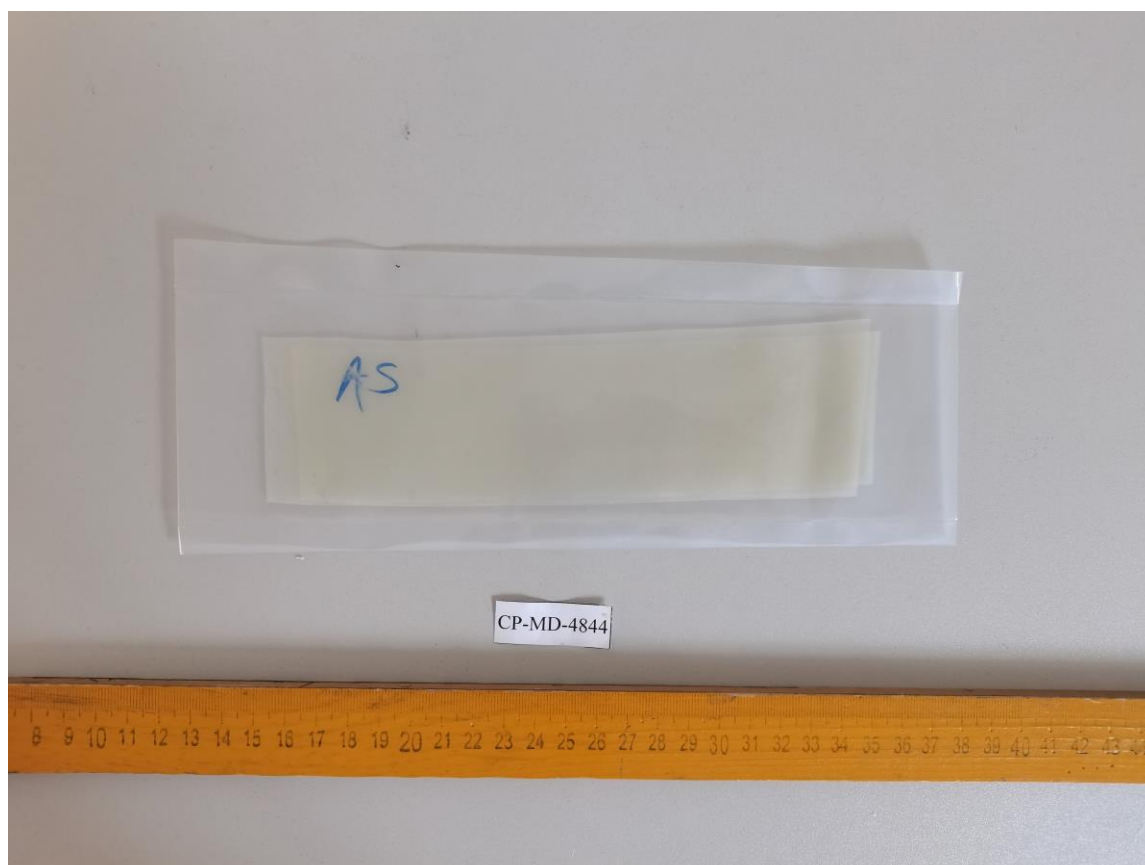


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Appendix 3 – Photograph(s) of Test Articles



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Statement of Quality Assurance Activities

Phase Inspected	Date Inspected	Study Director Notification Date	Management Notification Date
Study Plan Review	2022.03.31	2022.03.31	2022.03.31
Onsite Inspection: Extraction in the 1 st day	2022.04.08	2022.04.08	2022.04.08
Onsite Inspection: Animal acclimatization	2022.04.09	2022.04.09	2022.04.09
Onsite Inspection: Test substance application 1 st day	2022.04.01	2022.04.01	2022.04.01
Onsite Inspection: Observation conclude	2022.04.14	2022.04.14	2022.04.14
Study Data Review	2022.05.09	2022.05.09	2022.05.09
Final Report Review	2022.05.09	2022.05.09	2022.05.09

Based on a review of this study, it has been concluded that this report accurately describes the methods and standard operating procedures, and that the reported results accurately reflect the raw data of the study. This study has been reviewed in accordance with the provisions of the FDA Good Laboratory Practice Regulations (21 CFR, Part 58) and OECD Series on Principles of Good Laboratory Practice (GLP).

Quality Assurance Unit
Representative:

Jason Huang

2022.05.09
Date

***** END OF STUDY REPORT *****

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