

Department of Pharmacology

SKIN IRRITATION TEST REPORT

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Contract Number: BU-2021/04-IR

Customer Name/Address: Küçükler Tekstil

16. Cad. No: 58 OSB/Melikgazi/KAYSERI

Test Sample Name: Hemp Oil / Jacquard Knitted Mattress Ticking

Test Sample Description: Used as mattress ticking

Test Sample Code Number: 85184

Testing Facility:

Hacettepe University Faculty of Pharmacy

Pharmacology Department

06100, Sihhiye Ankara, Turkey

Arrival of the Test Sample: 12.03.2022

Date of Report: 24.03.2022

Attachment: Technical Information

RESULT

The test material "Hyaluronic Acid / Jacquard Knitted Mattress Ticking (Lot 85184)" does not cause skin irritation.

> ACTING COORDINATOR ADMINISTRATIVE DIRECTOR

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Professor Serdar Uma

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TECHNICAL INFORMATION

Contract Number: BU-2021/04-IR

GUIDELINES

TS EN ISO 10993:

Biological evaluation of medical devices

TS EN ISO 10993-1:2014

Evaluation and testing within a risk management process

TS EN ISO 10993-2:2006

Animal welfare requirements

TS EN ISO 10993-10:2014

Tests for irritation and skin sensitization

TS EN ISO 10993-12:2013

Sample preparation and reference materials

DESIGN OF STUDYING

TEST ANIMAL INFORMATION USED IN THE TEST:

Strain / Race / Gender: Rabbit (New Zeland) / Female

Weight: 2,50 - 3,25 kg

Housing Conditions: Rabbits were housed in cages at 21±2 °C, 40-60% relative humidity and

12 hours of light / 12 hours of darkness, providing free access to food and water.

Test Sample Quantity: 37,5 cm²

Start of Test: 16.03.2022

End of Test: 19.03.2022

Practice*:

The test was performed on the samplings that were provided by the customer.

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Test Procedure:

Three healthy adult albino rabbits (either sex, 2-3 kg) was used.

On the day before the test, the fur on the back of the animals was shaved. A sufficient distance was kept on both sides of the spine for the application and observation of all test sites. Test material and blank sample that prepared in accordance with practice method were applied to the skin on both sides in two different areas of the rabbit. The application sites were wrapped with a semi-occlusive bandage for 4 h. At the end of the contact time the patches and dressings were removed and the position of the sites were marked by permanent ink.

OBSERVATION AND CALCULATION

Application sites are observed for erythema and oedema at 1st, 24th, 48th, and 72nd hours following the removal of the patches. Only 24th, 48th, and 72nd hours observations are used for calculations. Irritation was scored by using ISO 10993-10, "Scoring system for skin reaction". Irritation grades are presented as mean of two application sites of either test or blank sample. The primary irritation score for each animal is calculated by dividing the sum of all the irritation scores by six (two test/observation sites, three time points). Primary irritation index is calculated by subtracting the sum of primary irritation scores for the blank sample from the sum of primary irritation scores for the test samples and then dividing this difference by the total number of animals (three). According to the calculated primary irritation index values, the results are presented as the appropriate response category which is given below.

TABLE 1: SCORING SYSTEM FOR SKIN REACTION

Irritation score
0
1
2
3
4
0
1
2
3
4
8

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RESULT

TABLE 2: MEAN IRRITATION SCORES OF TWO APPLICATION SITES AT 24 th, 48th,72th HOURS

OBSERVATION TIME POINTS (HOURS)	1ST RABBIT		2 ND RABBIT		3 RD RABBIT	
	CONTROL	TEST SITE	CONTROL	TEST SITE	CONTROL SITE	TEST SITE
24 th	0	0	0	0	0	0
48 th	0	0	0	0	0	0
72 nd	0	0	0	0	0	0
Primary irritation score	0	0	0	0	0	0

Primary irritation index: 0

PRIMARY IRRITATION INDEX	RESPONSE CATEGORY	
0 to 0.4	Negligible	
0.5 to 1.9	Slight	
2 to 4.9	Moderate	
5 to 8	Severe	

Response category: Negligible

CONCLUSION

The test sample with BU-2021/04-IR code does not cause skin irritation.

CHIEF OF TEST DEE

Professor Pelin Kelice

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