

DEPARTMENT OF PHARMACOLOGY

TR-06100 Sihhiye-Ankara, Turkey Telephone: +90 (312) 305 2131 • Fax: +90 (312) 305 2014 www.farma.hacettepe.edu.tr

Number: B.30.2.HAC.0.03.00.00/

13-19

SKIN IRRITATION TEST REPORT

GENERAL INFORMATION

Test Name

Skin irritation

Guidelines

This study followed the procedures indicated by the following internationally accepted guidelines:

ISO 10993: Biological evaluation of medical devices

ISO 10993-1: Evaluation and testing

ISO 10993-10: Test for irritation and skin sensitization

Testing Facility

: Hacettepe University

Faculty of Pharmacy

Department of Pharmacology 06100 ANKARA

Supplier of the Sample

: Kurt Kumaş San. ve Tic. A.Ş.

2. O. S. B. 83228 No'lu Cd. No: 16 P. K. 6

Başpınar / Gaziantep

Test Sample

: 45 g/ sqm non-woven SMS web (polypropylen)

Intended use area

: Fabric for laboratory coat

Lot No

: 1767717

Quantity

: 75 mm x 50 mm

Arrival of the test sample : 15.03.2013

Start of Experiment

: 09.04.2013

End of Experiment

: 12.04.2013

Date of Report

: 18.04.2013

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EXPERIMENTAL PROCEDURE

Negative control: 25 x 25 mm four-ply gauze patch

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 clipped. A sufficient distance was kept on both sides of the spine for the application and observation of all test sites. The test material and a sample of negative control were applied directly to the skin on both sides in two different areas of the rabbit. The application sites were covered with a 25 x 25 mm gauze patch and 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.





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OBSERVATION

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

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	
Dedema formation		
No oedema	0	
Very slight oedema (barely perceptible)	1	
Well-defined oedema (edges of area well-defined by definite raising)	2	
Moderate oedema (raised approximately 1 mm)	3	
Severe oedema (raised more than 1 mm and extending beyond exposure area)	4	
Maximal possible score for irritation	8	
Other adverse changes at the skin sites shall be recorded and reported.		





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RESULT

One hour after removing the test and control patches, no erythema reaction was appeared on the application areas of the test material for each rabbit. No skin reaction appeared following the 24, 48 and 72 hours observations of the sites where test sample and negative control were applied. The primary irritation score for each rabbit was calculated using irritation grades shown below.

Irritation scores for each rabbit at observation time points

Observation time points	1 st rabbit		2 nd rabbit		3 rd rabbit	
(hours <u>)</u>	Control site	Test site	Control site	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 Negligible			
0 to 0.4				
0.5 to 1.9	Slight			
2 to 4.9	Moderate			
5 to 8	Severe			

Response category: Negligible

CONCLUSION

This indicates that the test sample 45 g/sqm non-woven SMS web (polypropylen), (Lot1767717) does not cause skin irritation.

Study Director

Prof. Dr. Serdar UMA

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