



Hacettepe Technopolis Technology Transfer Center

SKIN IRRITATION TEST REPORT



Bu belge resmi makamlara sunulmak üzere hazırlanmıştır, belgenin yayınlanması ve kopyalanması yasaktır. Test sonuçları, sadece tarafımıza lot numarası beyan edilerek ulaştırılan numune için geçerlidir. Kaşeli ve ıslak imzalı olmayan raporlar geçersizdir.

Doküman Kodu: P10-F08

Yayın Tarihi:

Revizyon No/Tarih: 00/-

Sayfa No. 1/5

Hacettepe University Faculty of Pharmacy Department of Pharmacology 06100 Sihhiye/ANKARA/TURKEY Correspondence : Assoc.Prof. N. Tuğba Durlu Kandilci

Phone : +90 312 305 2131 Fax : +90 312 305 2014 e-mail : ndurlu@hacettepe.edu.tr

www.biocompatibility.center www.biyouyumluluk.com



SKIN IRRITATION TEST REPORT FORM



Contract Number: ARGEDS-2016/19A

Customer Name/Address: ENKA HİJYEN ÜRÜNLERİ SAN. Ve TİC. A:Ş.

2. ORGANIZE SANAYI BÖLGESI OTOBAN YOLU NO:4

27120 GAZIANTEP

Test Sample Name: PADDLERS BABY DIAPER

Test Sample Lot Number: 14360001

Testing Facility:

Hacettepe Univercity Faculty of Pharmacy

Pharmacology Department 06100, Sihhiye Ankara, Turkey

Arrival of the Test Sample: 17.02.2016

Date of Report: 05.04.2016

Attachment: Technical Information

RESULT

The test material "PADDLERS BABY DIAPER (Lot 14360001) does not cause skin irritation.

ADMINISTRATIVE DIRECTOR

Musi S

Professor Serdar Uma

COORDINATOR

Professor Inci Erdemli



Bu belge resmi makamlara sunulmak üzere hazırlanmıştır, belgenin yayınlanması ve kopyalanması yasaktır. Test sonuçları, sadece tarafımıza lot numarası beyan edilerek ulaştırılan numune için geçerlidir. Kaşeli ve ıslak imzalı olmayan raporlar geçersizdir.

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TECHNICAL INFORMATION

Contract Number:

ARGEDS-2016/19A

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 Sample Quantity: 6 pieces

Start of Test: 22.03.2016

End of Test: 25.03.2016

Practice*:

DIRECT CONTACT METHOD X	EXTRACTION METHOD -	OTHER/INSTRUCTIONS -			
Solid Samples:	Test sample extract is prepared				
Test sample is used directly in accordance	according to table of "Standart				
with TS EN ISO 10993-10 "Tests for	surface areas and extract liquid				
irritation and skin sensitization" standart.	volumes" in TS EN ISO 10993-12				
Blank Sample:	"Sample preparation and reference				
25 x 25 mm four-ply gauze patch	materials" standart. Extract is				
	obtained by incubation of sample with				
Liquid Samples:	physiological saline (% 0.9 (m/v)	V.			
Test sample is absorbed with 25 x 25 mm	NaCl) at 37 °C for 72 hours.				
four-ply gauze patch and applied directly in	Blank Sample:				
accordance with TS EN ISO 10993-10	Physiological saline (0.9 % (m/v)				
"Tests for irritation and skin sensitization"	NaÇI)				
standart.					
Blank Sample:					
25 x 25 mm four-ply gauze patch with					
physiological saline (0.9 % (m/v) NaCl)					
(water-based sample)					
25 x 25 mm four-ply gauze patch with sesame oil (oil-based sample)					
*SIGN THE SUITABLE CHOICE WITH "X", UNSUITABLE CHOICE WITH "-".					

Bu belge resmi makamlara sunulmak üzere hazırlanmıştır, belgenin yayınlanması ve kopyalanması yasaklı sadece tarafımıza lot numarası beyan edilerek ulaştırılan numune için geçenidir. Kaşeli ve ıslak imzali geçersizdir.

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yasaktır il est sonuçları ü imzalı olmayan, raporlar a No: 3/5



SKIN IRRITATION TEST REPORT **FORM**



Contract Number: ARGEDS-2016/19A

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

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 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.	/3		

Bu belge resmi makamlara sunulmak üzere hazırlanmıştır, belgenin yayınlanması ve kopyalanması yaşaktır. sadece tarafımıza lot numarası beyan edilerek ulaştırılan numune için geçerlidir. Kaşeli ve ıslak aecersizdir.

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RESULT

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

	1 ST RABBIT		2 ND RABBIT		3 RD RABBIT	
OBSERVATION:TIME POINTS (HOURS)	CONTROL	TEST SITE	CONTROL	TEST SITE	CONTROL	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 ARGEDS_2016/19A code does not cause skin irritation.

CHIEF OF TEST DERARTMEN

Professor Pelin Kelicen Uğur

Bu belge resmi makamlara sunulmak üzere hazırlanmıştır, belgenin yayınlanması ve kopyalanması yasaktır. Test sonuçları, sadece tarafımıza lot numarası beyan edilerek ulaştırılan numune için geçerlidir. Kaşeli ve ıslak imzalı olmayan raporlar geçersizdir.

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Sayfa No: 5/5