



Korea Environment & Merchandise Testing Institute

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TEST REPORT

No. : 06619

Date Out : APR. 21, 2004

Client : HANNAEUM Inc.

Date In : APR. 01, 2004

Address : #154, 244-19, Songkok-r1, Yeomchi-eup

Test Date : APR. 21, 2004

Asan-city choongchungnam-do, 336-813, KOREA

Sample Description : BUGSLOCK

Test Results :

Test Items	Test Results	Test Method
Skin Irritation Test	P.I.I = 0.1 (Negligible)	ISO 10993-10, 5.2 Skin Irritation Test

Signed by

S. B. Chun

Soo-Boo Chun, Manager
Toxicology Lab.

OUR REPORTS APPLY ONLY TO THE STANDARDS OR PROCEDURES IDENTIFIED AND TO THE SAMPLE(S) TESTED UNLESS OTHERWISE SPECIFIED.

THE TEST RESULTS ARE NOT INDICATIVE OF REPRESENTATIVE OF THE QUALITIES OF THE LOT FROM WHICH THE SAMPLE WAS TAKEN OR OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS.



NO : 06619

☒ Skin Irritation Test**1. TEST AND CONTROL MATERIALS**

Laboratory Animals : albino rabbits of the NZW®
Test Article : BUGSLOCK
Negative Control : 0.9% Normal saline Gauze Patch
Sex : Male
Application Method : Direct Contact
Weight : not less than 2kg

2. SUMMARY

This study was designed to evaluate the dermal irritancy of a test substance through contact with intact skin of rabbits. Approximately 24 hours prior to testing, the fur on the dorsal(back) area of the trunk on each rabbit was clipped. The test article was directly applied as a patch to skin of 6 rabbits and cover the application sites with a semi-occlusive bandage for a minimum of 4h. The sites exposed to the test article were examined for signs of dermal irritancy at 24, 48 and 72 hours following removal of the patches. The observations were rated on a numerical scale using the scoring system in Appendix 1 and cumulative irritation index defined in Appendix 2.

All observations and calculations are summarized in Table 1.

The calculated Primary Irritation Index(PII) = 0.1(Negligible)

3. RESULTS

▶ Table 1

Time/reaction	Animals(Weight)	(Test / Control)					
		1(2.6kg)	2(2.6kg)	3(2.7kg)	4(2.6kg)	5(2.8kg)	6(2.7kg)
24h	ER	1 / 0	0 / 0	0 / 0	0 / 0	1 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ER	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
48h	ER	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ER	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
72h	ER	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ER	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
	ED	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
Score Sum / 6		0.2 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.2 / 0.0	0.0 / 0.0
Subtotal (∑)		Test : 0.4		Control : 0.0			
PII (= ∑ / 6)		Test : 0.1		Control : 0.0			

PII : Primary Irritation Index

ER : Erythema

ED : Edema



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▶ Appendix 1.

Classification system for Skin reaction

(1) Erythema and Eschar

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

(2) Edema formation

No oedema

0

Very Slight oedema (barely perceptible)

1

Well-defined oedema (edfes of area well-defined by definite raising)

2

Moderate oedema (raised approximately 1mm)

3

Severe oedema (raised more than 1mm and extending beyond expoure area)

4

▶ Appendix 2 - Irritation response catagories in rabbit

Response Category

Mean Score

Negligible

0 - 0.4

Slight

0.5 - 1.9

Moderate

2 - 4.9

Severe

5 - 8

