



REPORT

EKOTEKS

1108440-RER-ing

REPORT NUMBER:	1108440-RER-ing
RECEIPT DATE:	17.02.2011
ISSUE DATE:	05.03.2012
BUYER NAME:	-
CLIENT NAME:	ASTEKNİK MÜH. YAPI VE YALITIM MALZ. ALÜMİNYUM VE PLASTİK SAN. TİC. LTD. ŞTİ.
ADDRESS:	1. Esenşehir, Şair Fuzuli Sok. No:10, Y. Dudullu/ İSTANBUL
CONTACT PERSON:	ENGİN BEREKETLİOĞLU

SAMPLE DESCRIPTION:	One sample of lilac striped cream plastic material. (PVC wall and corner-guard)
SAMPLING:	Not specified
ORDER NUMBER:	-
ARTICLE NUMBER:	-
END-USE:	-
CARE LABEL:	Not specified

REQUIRED TESTS	RESULT	COMMENTS
MICROBIOLOGICAL TESTS		
Antibacterial Activity(<i>JIS Z 2801/Staphylococcus aureus</i>)	-	
Antibacterial Activity(<i>JIS Z 2801/Escherichia coli</i>)	-	
No requirements were given. This test was performed between 17.02.2011.03.03.2011 dates.		

REMARK: This report can not be reproduced except in full, without written approval of the laboratory. The results given in this report belong to the received sample. Original samples are kept for 3 month and all technical records are kept for 5 years unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %.Tests marked (*) in this report are not included in the DakkS Accreditation Schedule for this Laboratory.

Note: The report issued on 04.03.2011 with the report number 1108440-ing was withdrawn and replaced with the report 1108440-RER-ing issued on 05.03.2012 due to typing error on issue date .

İlmiye Çavuşoğlu
Supervisor

Controlled by
Melek Zengin

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Cert. No: 0108248



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TEST RESULTS

ANTIBACTERIAL ACTIVITY : JIS Z 2801:2006(*)

Microorganism	<i>Staphylococcus aureus</i> ATCC 6538 P(Gram(+))
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Sample	Bacteria growth (cfu / cm ²)		Logarithmic Reduction Log (cfu / cm ²)	
	Contact Time (0 h)	After Incubation (24s, 35°C)	Log (A)	Log (B)
Untreated sample	8 x10 ⁴	1.6 x10 ⁷	4.9	7.2

Sample	Result (cfu / cm ²)	Logarithmic Reduction Log (cfu / cm ²)
	After Incubation (24s, 35°C)	Log C
Treated Sample	4 x10 ²	2.6

R= Log (B)- Log (C)	R= 4.6
Result:	% 99.9 effective

Inoculum concentration (kob/ml) and volume (ml)	4x10 ⁵ / 0.4 ml
Measuring method of number of living bacteria	Plate Count method
Type of sample material	Plastic
Size of sample	5x5 cm ²
incubation conditions	37°C, 24 hours, % 90 RH

According to the below formula, calculate the growth value of microorganism on the test material.

$$R = (B - A) - (C - A) = B - C$$
$$\text{Log (R)} = B - C$$

R: the antibacterial activity.

A: the average of the number of viable bacteria, recovered from the untreated test specimens after 0 h.

B: the average of the number of viable bacteria, recovered from the untreated test specimens after 24 h.

C: the average of the number of viable bacteria, recovered from the treated test specimens after 24 h.



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TEST RESULTS

ANTIBACTERIAL ACTIVITY : JIS Z 2801:2006(*)

Microorganism	<i>Escherichia coli</i> ATCC 8739 Gram (-)
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Sample	Bacteria growth (cfu / cm ²)		Logarithmic Reduction Log (cfu / cm ²)	
	Contact Time (0 h)	After Incubation (24s, 35°C)	Log (A)	Log (B)
Untreated sample	1.3 x10 ⁴	8.3 x10 ⁵	4.11	5.91

Sample	Result (cfu / cm ²)	Logarithmic Reduction Log (cfu / cm ²)
	After Incubation (24s, 35°C)	Log C
Treated Sample	4.2 x10 ³	3.62

R= Log (B)- Log (C)	R= 2.29
Result:	% 99.4 effective

Inoculum concentration (kob/ml) and volume (ml)	5.2x10 ⁵ / 0.4 ml
Measuring method of number of living bacteria	Plate Count method
Type of sample material	Plastic
Size of sample	5x5 cm ²
incubation conditions	37°C, 24 hours, % 90 RH

According to the below formula, calculate the growth value of microorganism on the test material.

$$R = (B - A) - (C - A) = B - C$$
$$\text{Log (R)} = B - C$$

R: the antibacterial activity.

A: the average of the number of viable bacteria, recovered from the untreated test specimens after 0 h.

B: the average of the number of viable bacteria, recovered from the untreated test specimens after 24 h.

C: the average of the number of viable bacteria, recovered from the treated test specimens after 24 h.



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