

**Test Report****Report No.:** GZAFN160301067X-4**Date:** Apr 06 2016

Client name: KEPUYIN BIO CO., LTD.
Client address: No.61 Xia Nan Road, Guicheng Street, Nanhai District,
Foshan City
Sample name: KP-J67
Sample Batch No.: /
Product Date: /
Manufacturer: KEPUYIN BIO CO., LTD.
Sample other information: Add KP-J67 antibacterial agent provided by KEPUYIN BIO CO., LTD.

Above sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Sample No. GZAFN160301067X-4
SGS reference No. /
Date of sample received: Mar. 25, 2016
Testing period: Mar. 25, 2016 ~ Apr. 05, 2016

TEST(S) REQUESTED:

Selected test(s) as requested by the applicant

TEST METHOD(S):

Please refer to next page(s)

TEST RESULT(S):

Please refer to next page(s)

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

SGS Authorized Signature
Winnie Lee

This test report refers only to the sample(s) tested. This document cannot be used for publicity, without prior written approval of the SGS.

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RAND: 4873609

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Member of the SGS Group (SGS SA)

TEST RESULT(S):

A: Assessment of Antimicrobial activity

Test method: With reference to JIS Z 2801:2010

Test organism: *Escherichia coli* ATCC 8739, *Staphylococcus aureus* ATCC 6538P

Name of test bacteria (Strain number)	Concentration of bacteria (cfu/mL)	Volume of test inoculum (mL)	The average of the common logarithm of the number of viable bacteria(cfu/cm ²) that recovered from the different contact time			Value of antimicrobial activity
			/	at "0h" contact time	at "24h" contact time	
<i>Escherichia coli</i> ATCC 8739	1.0x10 ⁶	0.2	Sample	/	-0.20	5.3
			Control Sample	4.12	5.11	
<i>Staphylococcus aureus</i> ATCC 6538P	1.1x10 ⁶	0.2	Sample	/	-0.20	4.8
			Control Sample	4.08	4.58	

Remark: The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.

B: Test of antimicrobial activity

Test method: With reference to ISO 22196:2011

Test organism: *Staphylococcus aureus* ATCC 6538P, *Escherichia coli* ATCC 8739

Test Organism(s)	Concentration of bacteria (cfu/mL)	Volume of test inoculum (mL)	The log value of the number(cfu/cm ²) that bacteria recovered from the different contact time			The value of antimicrobial activity
			/	at "0h" contact time	at "24h" contact time	
<i>Staphylococcus aureus</i> ATCC 6538P	1.1x10 ⁶	0.2	Sample	/	-0.21	4.8
			Control Sample	4.08	4.58	
<i>Escherichia coli</i> ATCC 8739	1.0x10 ⁶	0.2	Sample	/	-0.21	5.3
			Control Sample	4.11	5.11	

Remark: The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.

C: Determine the antimicrobial activity of the submitted sample in 18 hour(s)

Test method:With reference to ASTM E 2149-2013a

Test organism(s): *Staphylococcus aureus* ATCC 6538, *Escherichia coli* ATCC 25922

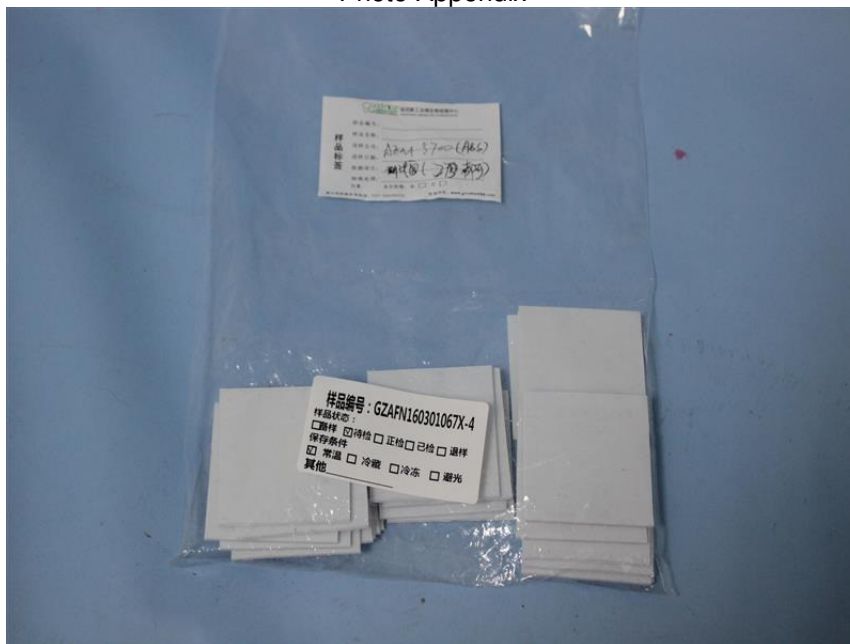
Name of test organism	The number of bacteria recovered from (CFU/mL)			Reduction %
	/	"0"contact time	"18h"contact time	
<i>Staphylococcus aureus</i> ATCC 6538	Sample (1g)	/	< 1.0x10 ⁰	> 99
	Inoculum only control	2.4x10 ⁵	4.2x10 ⁵	

Name of test organism	The number of bacteria recovered from (CFU/mL)			Reduction %
	/	"0"contact time	"18h"contact time	
<i>Escherichia coli</i> ATCC 25922	Sample (1g)	/	4.0×10 ⁰	> 99
	Inoculum only control	1.7×10 ⁵	2.5×10 ⁴	

Remark: The reduction calculations are based on values from inoculum only control.

SAMPLE DESCRIPTION: Sample in bag

Photo Appendix



SGS authenticate the photo on original report only
*** End of Report ***