

TEST REPORT

Applicant: DRAGONCHEM LIMITED
UNIT 3 9/F TRUST CTR
912-914 CHEUNG SHA WAN RD
KLN HK
Attn: DERICK YIP

Number: HKGH02737546
Date: Jun 24, 2021

Submitted sample said to be :
Item Name : **TE-1015K (Lot#3067566) - BACTOSTAT TPE RESIN**
Quantity : 15 pieces
Buyer : VICTAMAX LLC

Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) ASTM WK66122 -Determining the Bacterial-Repellent Activity on the Surface of Treated Polymeric Materials	See details enclosed

Decision Rule(s):
When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc>.
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



TEST REPORT

Number : HKGH02737546

(1) Determining the Bacterial-Repellent Activity on the Surface of Treated Polymeric Materials

Test Standard : ASTM WK66122.

Sterilization of sample prior to testing by wiping with 70% ethanol in water.

Test culture: *Escherichia coli* (ATCC 8739)
Staphylococcus aureus (ATCC 6538P)

Inoculum suspension medium: 1/500 nutrient broth
Inoculum concentration: $10^6 - 10^7$ CFU/mL
Test specimen: 50 mm x 50 mm flat square of submitted sample
50 mm x 50 mm flat square of untreated sample as control

Test condition: 0.4 mL bacterial inoculum was added onto one surface of the test specimen sample, then covered with sterile 40 mm x 40 mm plastic cover film

Swab / Neutralizing solution: Lethen Broth
Contact time / temperature: 24 hours / 35°C
Agar medium: Plate Count Agar
Incubation period / temperature of agar: 48 hours / 35°C

Result :

Test microorganism	<i>Escherichia coli</i> (ATCC 8739)					
Concentration of inoculum	6.1×10^6 CFU/mL					
	Untreated test specimen			Treated test specimen		
	Trial 1	Trial 2	Trial 3	Trial 1	Trial 2	Trial 3
Number of viable bacteria recovered (CFU/mL)	2.40×10^2	1.70×10^2	1.10×10^2	<10	<10	<10
Average of three trials (CFU/mL), C	1.73×10^2			<10		
Number of viable bacteria recovered (CFU/cm ²), N = (C x 100) / 1600	10.8			0.625		
Bacterial-Repellent Rate, BRR = $(N_{control} - N_{sample}) / N_{control} \times 100\%$				94.2%		



TEST REPORT

Number : HKGH02737546

Test microorganism	<i>Staphylococcus aureus</i> (ATCC 6538P)					
Concentration of inoculum	4.8x10 ⁶ CFU/mL					
	Untreated test specimen			Treated test specimen		
	Trial 1	Trial 2	Trial 3	Trial 1	Trial 2	Trial 3
Number of viable bacteria recovered (CFU/mL)	9.20x10 ⁵	5.20x10 ⁵	5.60x10 ⁵	<10	<10	<10
Average of three trials (CFU/mL), C	6.67x10 ⁵			<10		
Number of viable bacteria recovered (CFU/cm ²), N = (C x 100) / 1600	41687.5			0.625		
Bacterial-Repellent Rate, BRR = (N _{control} - N _{sample}) / N _{control} X 100%				99.99%		

Sample received condition: Samples in closed plastic bags.

Date sample received : Jun 03, 2021
 Testing period : Jun 10, 2021 to Jun 22, 2021



TEST REPORT

Number : HKGH02737546



End of report

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to and subject to our standard Terms and Conditions which can be obtained at our website: <http://www.intertek.com/terms/>. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Intertek is responsible for all the information provided in the reports, except when information is provided by the Client or when the Client requires the item to be tested acknowledging a deviation from specified conditions that can affect the validity of results.

The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

