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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

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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 :

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

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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.

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

Cindy I.K. Chan
Vice President

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(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:	Letheen 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	*Escherichia coli* (ATCC 8739)					
Concentration of inoculum	$6.1x10^6$ 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)	$2.40x10^2$	$1.70x10^2$	$1.10x10^2$	<10	<10	<10
Average of three trials (CFU/mL), C	$1.73x10^2$			<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}) / $N_{control}$ x 100%				94.2%		

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Test microorganism	*Staphylococcus aureus* (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

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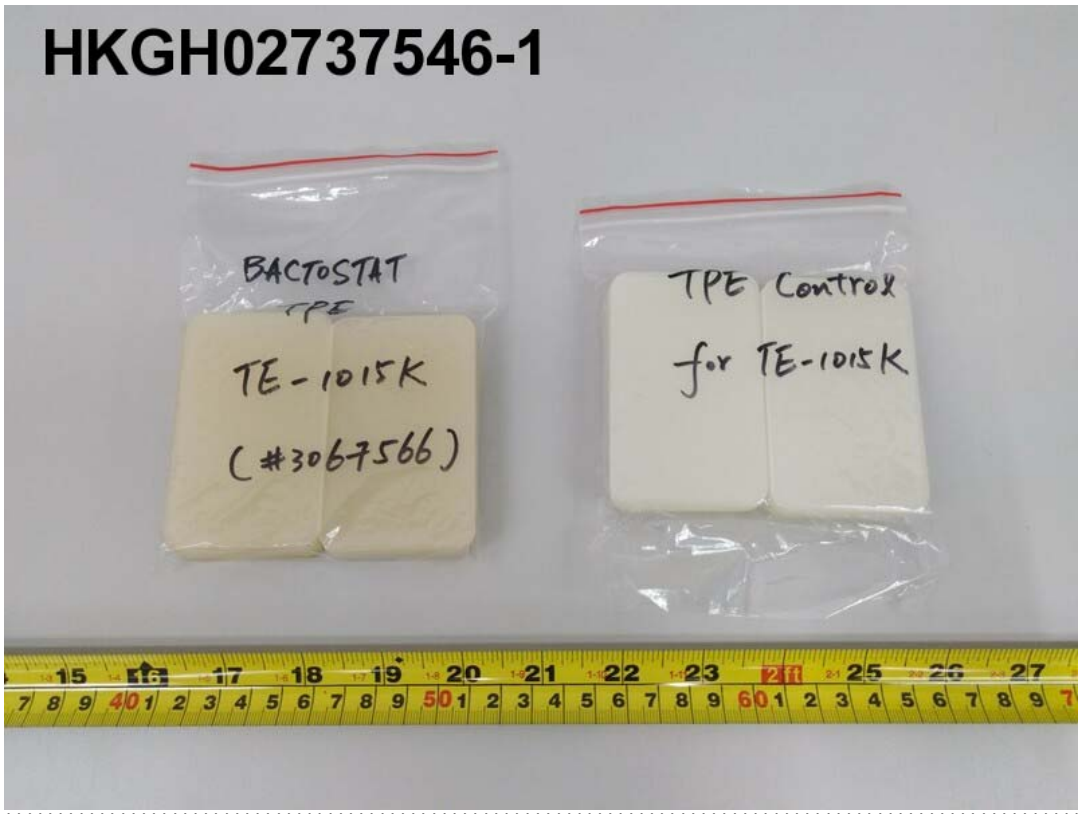

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End of report

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