

TEST REPORT

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

Number: HKGH02695755

Date: Mar 22, 2021

Attn: DERICK YIP

Submitted sample said to be :
Item Name : **BACTOSTAT POLYPROPYLENE**
Item No. : **HP3028D**
Manufacturer : THE HONG KONG POLYMER SCIENCE LTD
Buyer : VICTAMAX LLC
Quantity : 16 pieces
Country of Origin : Hong Kong S.A.R.

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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

ASTM WK66122

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

Result

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.

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



Cindy I.K. Chan
Vice President



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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) _____

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	1.0x10 ⁷ 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)	1.87x10 ³	1.57x10 ³	1.72x10 ³	20	<10	50
Average of three trials (CFU/mL), C	1.72x10 ³			27		
Number of viable bacteria recovered (CFU/cm ²), N = (C x 100) / 1600	107.5			1.6875		
Bacterial-Repellent Rate, BRR = (N _{control} - N _{sample}) / N _{control} x 100%				98.4%		



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Number : HKGH02695755

Sample received condition: Samples in closed plastic bags.

Date sample received : Mar 12, 2021
Testing period : Mar 12, 2021 to Mar 22, 2021

End of report

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