TEST REPORT

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

Attn: DERICK YIP

Number: HKGH02952796

Date: Jan 03, 2023

Sample and Information provided by customer :
Item Name : **BACTOSTAT PP**
Model No. : **RP3534 (Lot No. 20221120)**
Quantity : 8 pieces
Manufacturer : THE HONG KONG POLYMER SCIENCE LTD.
Buyer : VICTAMAX LLC
Country of Origin : HONG KONG

****

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 E3371-22 - Measuring the ability of a synthetic polymeric material to resist bacterial adherence	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

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

intertek
Total Quality. Assured.

TEST REPORT

Number : HKGH02952796

(1) Measuring the ability of a synthetic polymeric material to resist bacterial adherence

Test Standard : ASTM E3371-22.

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

Test culture:	*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
Contact time / temperature:	24 hours / 35°C
Agar medium:	Plate Count Agar
Incubation period / temperature of agar:	48 hours / 35°C

Result :

Test microorganism	*Staphylococcus aureus* (ATCC 6538P)					
Concentration of inoculum	$9.4x10^6$ 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/device)	$2.44x10^4$	$7.28x10^4$	$3.92x10^4$	$3.60x10^2$	$4.00x10^2$	$4.80x10^2$
Average of three trials (CFU/device), C	$4.55x10^4$			$4.13x10^2$		
Number of viable bacteria recovered (CFU/cm^2), N = (C x 100) / 1600	2843.75			25.8125		
Bacterial-Repellent Rate, BRR = ($N_{control}$ – N_{sample}) / $N_{control}$ x 100%				99.1%		

Sample received condition: Samples in closed plastic bags.

Date sample received : Dec 05, 2022
Testing period : Dec 08, 2022 to Dec 19, 2022

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

TEST REPORT

Number : HKGH02952796

****

End of report

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk