

## TEST REPORT

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

Number: HKGH02952796

Date: Jan 03, 2023

Attn: DERICK YIP

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 :

<u>Requirement</u>	<u>Result</u>
(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 inhaled 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 : 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	<i>Staphylococcus aureus</i> (ATCC 6538P)					
Concentration of inoculum	$9.4 \times 10^6$ 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/device)	$2.44 \times 10^4$	$7.28 \times 10^4$	$3.92 \times 10^4$	$3.60 \times 10^2$	$4.00 \times 10^2$	$4.80 \times 10^2$
Average of three trials (CFU/device), C	$4.55 \times 10^4$			$4.13 \times 10^2$		
Number of viable bacteria recovered (CFU/cm <sup>2</sup> ), $N = (C \times 100) / 1600$	2843.75			25.8125		
Bacterial-Repellent Rate, $BRR = (N_{control} - N_{sample}) / N_{control} \times 100\%$				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



## TEST REPORT

Number : HKGH02952796

### HKGH02952796-001



\*\*\*\*\*

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.*

