

TEST REPORT

Applicant: MID OCEAN BRANDS BV

7/F, KINGS TOWER. 111 KING LAM STREET, CHEUNG SHA WAN,

KOWLOON

HK

Attn: **GARY YUEN**

Submitted sample said to be

Item Name Model No. Quantity Vendor

Country of Origin

Number: HKGH02641505

Date: Oct 09, 2020

anti-bacterial pen MO6153

1 Bag per style 104901

China



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

ISO 22196:2011 - Measurement of antibacterial activity on plastics and other non-porous surfaces

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..

In the requested exception or standard. Intertek's "Decision Rule Document" is not applicable and indication of """

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







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(1) Measurement of antibacterial activity on plastics and other non-porous surfaces

Test Standard: International Standard ISO 22196:2011.

Test culture:

Escherichia coli (ATCC 8739) - 1.0x10⁶ CFU/mL Staphylococcus aureus (ATCC 6538P) - 7.6x10⁵ CFU/mL

50 mm x 50 mm flat square of submitted sample Test specimen:

50 mm x 50 mm flat square of untreated sample as control

Neutralizing solution: D/E neutralizing broth

Contact time / temperature: 24 hours / 35°C

Agar medium: Plate Count Agar

Incubation period / temperature of agar: 48 hours / 35°C

0.4 mL bacterial inoculum was added onto face side of the treated Test condition:

sample and back side of the untreated sample

Result:

Test microorganism	U _o Criteria: 3.7 ≤ U _o ≤ 4.4	U _t Criteria: U _t ≥ 1.8	A _t	Log R	% R	Comment*
Escherichia coli	4.3	3.2	0	3.2	99.9	Significant
Staphylococcus aureus	4.1	2.6	0	2.6	99.7	Significant







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= Log (bacteria recovered from untreated specimen in CFU/cm²) immediately after Remark:

inoculation

= Log (bacteria recovered from untreated specimen in CFU/cm²) after 24 hours

incubation

= Log (bacteria recovered from treated specimen in CFU/cm²) after 24 hours incubation

= Log reduction value (U_t - A_t)

Reference Rating*:	<u>%R</u>	Antibacterial activity		
	<u><</u> 90%	Not acceptable		
	>90 - <99%	Insignificant		
	<u>≥</u> 99%	Significant		

Sample received condition: Samples in closed plastic bags.

Date sample received: Sep 24, 2020

Testing period: Sep 28, 2020 to Oct 07, 2020

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