

TEST REPORT

Applicant: MID OCEAN BRANDS BV
7/F, KINGS TOWER,
111 KING LAM STREET,
CHEUNG SHA WAN,
KOWLOON
HK
Attn: JOYCE WONG/DEREK HUI

Number: HKGH03057107

Date: Oct 06, 2023

Sample and Information provided by customer :
Item Name : **Antibacterial twist ball pen**
Item No. : **MO6138**
Style : **2 asst style**
Quantity : **1 pack per style**
Packaging Provided : **No**
Vendor : **110658**
Country of Origin : **China**



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



Cindy I.K. Chan
Vice President



TEST REPORT

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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 :

<u>Requirement</u>	<u>Result</u>
(1) ISO 22196:2011 - Measurement of antibacterial activity on plastics and other non-porous surfaces	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.qrd.by/decision-rule-doc>.
If decision rule already inlined in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



TEST REPORT

Number : HKGH03057107

(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) – 4.8x10⁵ CFU/mL
Staphylococcus aureus (ATCC 6538P) – 5.8x10⁵ 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

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

Test condition: 0.4 mL bacterial inoculum was added onto white surface of the test specimen 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*
<i>Escherichia coli</i>	4.00	5.74	1.99	3.75	99.9	Significant
<i>Staphylococcus aureus</i>	4.15	4.82	1.49	3.33	99.9	Significant

Remark : U_o = Log (bacteria recovered from untreated specimen in CFU/cm²) immediately after inoculation
 U_t = Log (bacteria recovered from untreated specimen in CFU/cm²) after 24 hours incubation
 A_t = Log (bacteria recovered from treated specimen in CFU/cm²) after 24 hours incubation
 R = Log reduction value (U_t - A_t)

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

Sample received condition: Samples in closed plastic bags.



TEST REPORT

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Date sample received : Sep 25, 2023
Testing period : Sep 27, 2023 to Oct 05, 2023

End of report

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