

TEST REPORT

Number: HKGH02943459

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

Test Standard: International Standard ISO 22196:2011.

Test Item: Antimicrobial iPhone Case / Antimicrobial iPhone Screen Protector

Test culture: Escherichia coli (ATCC 8739) – 7.6x10⁵ CFU/mL

Staphylococcus aureus (ATCC 6538P) – 5.9x10⁵ 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 marked surface of the test

specimen sample

Result:

Test microorganism	U₀ Criteria: 3.7 ≤ U ₀ ≤ 4.4	Ut Criteria: U t≥ 1.8	At	Log R	% R	Comment*
Escherichia coli	4.13	6.08	0	6.08	99.9999	Significant
Staphylococcus aureus	4.22	3.88	0	3.88	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*:	<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: Nov 08, 2022

Testing period: Nov 14, 2022 to Nov 22, 2022





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