

Quality Test Report

ORIGINAL

Test Report No. TW-21A0027

(Page 1 of 3)

Applicant: ASUSTeK COMPUTER INC.
No.115, Li-De Rd., Beitou Dist., Taipei 112, Taiwan

October 5, 2021

Test results to submitted sample are as follows.

Reception Date : August 26, 2021

Item Name : ASUS BacGuard-PL-10-01

Number of Item : 2

Test Item : The test of the antibacterial efficacy

Test Method : ISO 22196 : 2011

Test Bacteria : *Staphylococcus aureus* NBRC 12732

BOKEN QUALITY EVALUATION INSTITUTE

BOKEN

Taiwan Testing Center
SGS Taiwan Ltd.

31, Wu Chyuan Road, New Taipei Industrial Park,
Wu Ku Dist., New Taipei City 24886, Taiwan

TEL.+886-2-2299-3279/FAX.+886-2-2299-9630

Test Result :

Untreated specimens		Common logarithm of the number of viable bacteria
BLANK SAMPLE	Immediately after inoculation [U_0]	4.08
	After 24h [U_t]	4.15

Test sample	Common logarithm of the number of viable bacteria after 24h [A_t]	Value of antibacterial activity [R]
ASUS BacGuard-PL-10-01	< -0.20	4.3

* The volume of test inoculum used : 0.4 ml The size of the cover film : 16 cm²

* This sample was tested on client specified side.

* Value of antibacterial activity [R] = $U_t - A_t$

* Surface of the test piece was cleaned by ethanol.

* Tested by Boken Osaka laboratory.

Notice - This test result is applied to the submitted sample, not to the lot.
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Test Item : The test of the antibacterial efficacy

Test Method : ISO 22196 : 2011

Test Bacteria : *Escherichia coli* NBRC 3972

Test Result :

Untreated specimens		Common logarithm of the number of viable bacteria
BLANK SAMPLE	Immediately after inoculation [U_o]	4.10
	After 24h [U_t]	6.01

Test sample	Common logarithm of the number of viable bacteria after 24h [A_t]	Value of antibacterial activity [R]
ASUS BacGuard-PL-10-01	< -0.20	6.2

* The volume of test inoculum used : 0.4 ml The size of the cover film : 16 cm²

* This sample was tested on client specified side.

* Value of antibacterial activity [R] = $U_t - A_t$

* Surface of the test piece was cleaned by ethanol.

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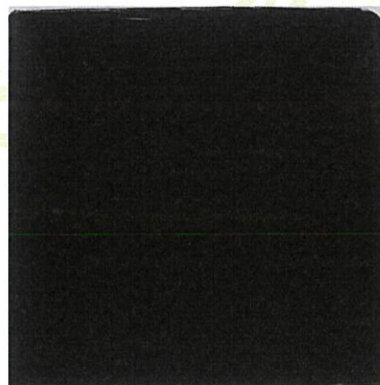
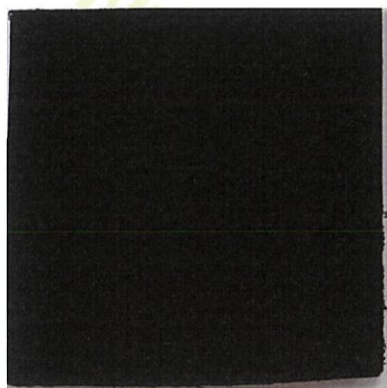
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[Submitted Sample]

BLANK SAMPLE

TEST SAMPLE



BOKEN QUALITY EVALUATION INSTITUTE
Taiwan Testing Center

Supervised by N. Yamamoto

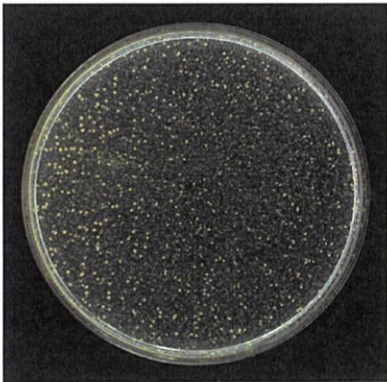
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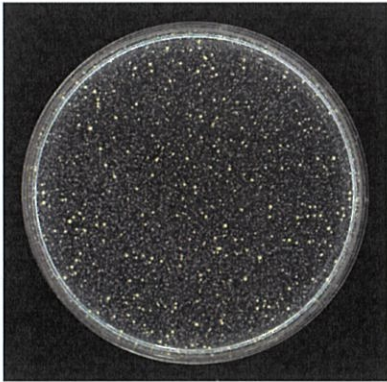
TW-21A0027

No.	sample name	The details	
①	BLANK SAMPLE	Immediately after inoculation [U _o]	Staphylococcus aureus
②	BLANK SAMPLE	After 24h [U _t]	Staphylococcus aureus
③	Test sample: ASUS BacGuard-PL-10-01	After 24h [A _t]	Staphylococcus aureus
④	BLANK SAMPLE	Immediately after inoculation [U _o]	Escherichia coli
⑤	BLANK SAMPLE	After 24h [U _t]	Escherichia coli
⑥	Test sample: ASUS BacGuard-PL-10-01	After 24h [A _t]	Escherichia coli

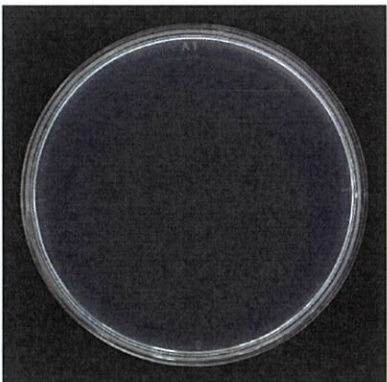
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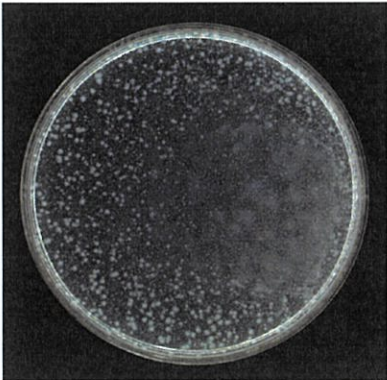
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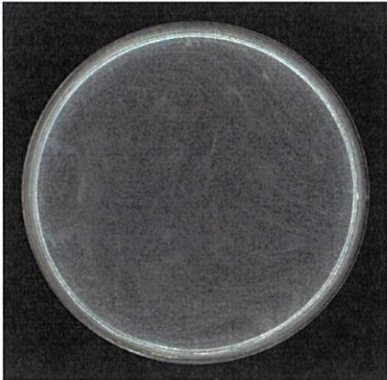
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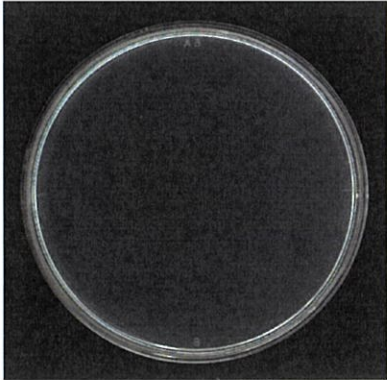
④



⑤



⑥



Test memo

Applicant: ASUSTeK COMPUTER INC.

October 5, 2021

Test Report No. TW-21A0027

Percentage of antimicrobial efficacy tested based on ISO22196

Staphylococcus aureus NBRC 12732

Sample name	Viable bacterial count/cm ² <Average>	Percentage of antimicrobial efficacy (%)
Untreated specimen After 24 h.	1.4×10^4	_____
Test sample: ASUS BacGuard-PL-10-01	<0.63	99.99%

Escherichia coli NBRC 3972

Sample name	Viable bacterial count/cm ² <Average>	Percentage of antimicrobial efficacy (%)
Untreated specimen After 24 h.	1.0×10^6	_____
Test sample: ASUS BacGuard-PL-10-01	<0.63	99.99%

(Note₁) Calculation method of percentage of antimicrobial efficacy is as follows.

•Percentage of antimicrobial efficacy (%) =

(Average value of the viable bacterial count / 1 cm² of the untreated sample after 24 h) -

(Average value of the viable bacterial count / 1 cm² of the treated sample after 24 h) /

(Average value of the viable bacterial count / 1 cm² of the untreated sample after 24 h) × 100

•Percentage of antimicrobial efficacy was rounded the second decimal place down and the value was displayed with the second decimal place.

(Note₂) When the viable bacterial count/cm² <0.63, it was calculated considering as 0.63.