

## 保康潔 Coversafe™ 抗菌效能

Bacteria Type 細菌種類	Efficiency 抗菌活性率 <sup>#2-1</sup>
Escherichia coli 大腸桿菌	>99.9999% (R=6.7)
Staphylococcus aureus 金黃葡萄球菌	>99.999% (R=5.5)

#2-1: 檢測方法為 ISO22196:2011 & JIS Z 2801:2012, 測試機構 : [SGS-HONGKONG](#)

證書編號 : T32020300240TY



**Test Report**

No.T32020300240TY

Date: Nov 20, 2020

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DRAGONCHEM LTD  
UNIT 3, 9/F., TRUST CENTER,  
912 - 914 CHEUNG SHA WAN ROAD,  
KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as  
COVERSAFE SELF-ADHESIVE ANTIMICROBIAL PROTECTION FILM

Case No. : CA320203012979  
Style / Item No. : CS005A4  
Supplier : GERONNE INDUSTRIES  
Manufacturer : GERONNE INDUSTRIES  
Country of Origin : FRANCE  
Sample Receiving Date : OCT 14, 2020  
Testing Period : OCT 14, 2020 - NOV 20, 2020

**Test Requested, Test Method and Test Results**

Please refer to the following page(s).

Signed for and on behalf of  
SGS Hong Kong Ltd.

Cheng Yui Hei, Jeff  
Technical Manager

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**Test Requested, Test Method and Test Results**

The analyses were performed with reference to  
**ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces and JIS Z 2801:2012 Antibacterial Products – Test for antibacterial activity and efficacy**

Test bacteria : *Staphylococcus aureus* ATCC 6538P  
Standard film used : Yes  
Test conditions effectiveness (Remarks 2) : Yes  
Test side : Side without checker pattern  
Antibacterial Activity value of Test Sample : 5.5  
Requirement compliance of Test Sample : Pass

		Log
The number of inoculated bacteria in Untreated Control Sample (A)	2.34 x 10 <sup>5</sup>	5.4
The number of the bacteria in untreated control sample after 24h incubation (B)	3.12 x 10 <sup>6</sup>	6.5

Tested sample	Number of bacteria after 24h inoculation (C)	Log C	Log B - Log C
As received sample	10	1.0	5.5

**Comment** : When tested as specified, the submitted original sample **provides** effective antibacterial property based on the standard value of evaluation against *S. aureus*

Antibacterial Activity Value (R)  $\geq$  2.0 (Log B- Log C).

**Remarks** :

1. The standard value of evaluation against *S. aureus*: Log B - Log C  $\geq$  2.0.
2. The test conditions are judged as effective if:
  - a.  $(L_{max}-L_{min}) / (L_{mean}) \leq 0.2$ , where  
 $L_{max}$  is the common logarithm of the maximum number of viable bacteria found on a specimen  
 $L_{min}$  is the common logarithm of the minimum number of viable bacteria found on a specimen  
 $L_{mean}$  is the common logarithm of the mean number of viable bacteria found on the specimens
  - b. The number of inoculated bacteria in untreated control sample shall be within the range of  $9.92 \times 10^4$  to  $4.00 \times 10^5$  cells
  - c. The number of the bacteria in untreated control sample after 24 incubation shall not be less than  $9.92 \times 10^3$  cells with standard film

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Test bacteria : *Escherichia coli* ATCC 8739  
 Standard film used : Yes  
 Test conditions effectiveness (Remarks 2) : Yes  
 Test side : Side without checker pattern  
 Antibacterial Activity value of Test Sample : 6.7  
 Requirement compliance of Test Sample : Pass

		Log
The number of inoculated bacteria in Untreated Control Sample (A)	2.36 x 10 <sup>5</sup>	5.4
The number of the bacteria in untreated control sample after 24h incubation (B)	5.16 x 10 <sup>7</sup>	7.7

Tested sample	Number of bacteria after 24h inoculation (C)	Log C	Log B - Log C
As received sample	10	1.0	6.7

**Comment** : When tested as specified, the submitted original sample **provides** effective antibacterial property based on the standard value of evaluation against *E. coli*

Antibacterial Activity Value (R) ≥ 2.0 (Log B- Log C).

**Remarks** :

- The standard value of evaluation against *E. coli*: Log B - Log C ≥ 2.0.
- The test conditions are judged as effective if:
  - $(L_{max}-L_{min}) / (L_{mean}) \leq 0.2$ , where  
 $L_{max}$  is the common logarithm of the maximum number of viable bacteria found on a specimen  
 $L_{min}$  is the common logarithm of the minimum number of viable bacteria found on a specimen  
 $L_{mean}$  is the common logarithm of the mean number of viable bacteria found on the specimens
  - The number of inoculated bacteria in untreated control sample shall be within the range of  $9.92 \times 10^4$  to  $4.00 \times 10^5$  cells
  - The number of the bacteria in untreated control sample after 24 incubation shall not be less than  $9.92 \times 10^3$  cells with standard film

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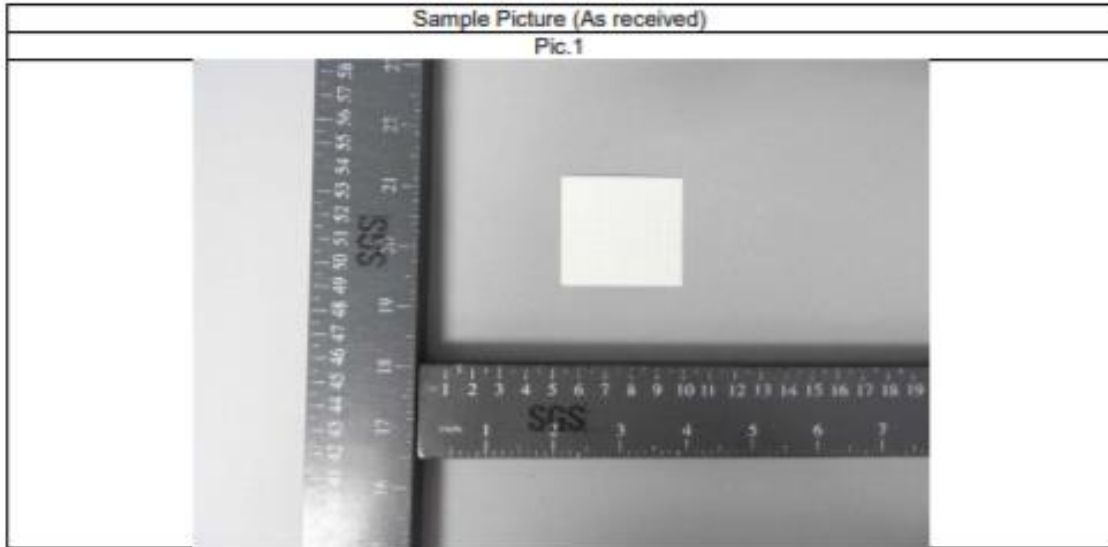
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Sample Photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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