

**Report Number:** SHFT251200069471  
**Sample name:** i-Bar **Report to:** Multi Home Builder Sdn. Bhd. **Laboratory name:** SGS-CSTC Standards Technical Services Co.,Ltd Suzhou Branch  
**SGS ID:** SHFT2512000694HS M1 **Address:** No. 32-01, Jalan SILC 1/14, Kawasan Perindustrian SILC, 79200 Iskandar Puteri, Johor, Malaysia. **Laboratory address:** 3/4/F., Building 1, Liandong U Valley, No.200 Xingpu Road, Suzhou Industrial Park, Suzhou, Jiangsu, China  
**Sample Model No:** N/A **Manufacturer:** N/A **Test Laboratory address:** Building 66, No. 100, Xianlie Middle Road, Guangzhou, China  
**Sample Quantity:** 3 **Manufacturer Address:** N/A  
**Generic Description:** iBar Air Quality Improvement System  
**Date Received:** 2025-12-21  
**Test Method:** Refer to Appendix E of JEM 1467-2015, customized the microbial removal efficiency of test samples on object surfaces at 0.5h, 1h, 2h, and 4h, and report the results of the removal rate.

Sample photo



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The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc...and just for client internal reference.

Approved by: Legend Xue  
 Legend Xue  
 SGS IBR Laboratory Manager

Revision	Editorial or Technical	Description	Release Date
		Initial Release	2026-01-23

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**SGS Report Number:** SHFT251200069471

Performed for: Multi Home Builder Sdn. Bhd.

**Test Date:** 2025-12-23~2026-01-16

Location: No. 32-01, Jalan SiLC 1/14, Kawasan Perindustrian SiLC, 79200 Iskandar Puteri, Johor, Malaysia.

**Received Date:** 2025-12-21

Contact: Mr Cheng Yok Kiong

**Test Method:** Refer to Appendix E of JEM 1467-2015, customized the microbial removal efficiency of test samples on object surfaces at 0.5h, 1h, 2h, and 4h, and report the results of the removal rate.

**Sample & Steup Information**

Description of Sample: Rectangular Equipment

Customer ID: N/A

SGS ID: SHFT2512000694HS M1

Sample placement: Place the prototype on the back wall of the test chamber near the top, and hang the microbial carrier at a distance of 80cm from the prototype wall and a height of 1.2m.

 Test Microorganism: Staphylococcus aureus subsp. aureus ATCC 43300  
 Pasteurella multocida subsp. Multocida ATCC 43137  
 Aspergillus niger ATCC 6275

Objects used: Textile

 Chamber size: 10m<sup>3</sup>
**Removal rate - Summary**

The test microorganism	Action time	Serial Number	Average cfu of positive controls (cfu/pc)	Average cfu of testing groups (cfu/pc)	Sterilization logarithm	Target pollutant (microbial) removal rate (%)	
Staphylococcus aureus subsp. aureus ATCC 43300	0.5 h	1	6.1×10 <sup>5</sup>	6.0×10 <sup>5</sup>	0	1.64	
		2	6.4×10 <sup>5</sup>	6.3×10 <sup>5</sup>	0.01	1.56	
		3	6.3×10 <sup>5</sup>	6.3×10 <sup>5</sup>	0	0	
	<b>Average</b>						<b>1.07</b>
	1 h	1	6.1×10 <sup>5</sup>	5.8×10 <sup>5</sup>	0.02	4.92	
		2	6.4×10 <sup>5</sup>	6.2×10 <sup>5</sup>	0.02	3.12	
		3	6.3×10 <sup>5</sup>	6.0×10 <sup>5</sup>	0.02	4.76	
	<b>Average</b>						<b>4.27</b>
	2 h	1	6.1×10 <sup>5</sup>	5.7×10 <sup>5</sup>	0.02	6.56	
		2	6.4×10 <sup>5</sup>	5.9×10 <sup>5</sup>	0.04	7.81	
		3	6.3×10 <sup>5</sup>	5.8×10 <sup>5</sup>	0.04	7.94	
	<b>Average</b>						<b>7.44</b>
	4 h	1	6.1×10 <sup>5</sup>	5.3×10 <sup>5</sup>	0.06	13.11	
		2	6.4×10 <sup>5</sup>	5.6×10 <sup>5</sup>	0.06	12.50	
		3	6.3×10 <sup>5</sup>	5.4×10 <sup>5</sup>	0.07	14.29	
	<b>Average</b>						<b>13.30</b>

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**Received Date:** 2025-12-21

Contact: Mr Cheng Yok Kiong

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**Sample & Steup Information**

Description of Sample: Rectangular Equipment

Customer ID: N/A

SGS ID: SHFT2512000694HS M2

Sample placement: Place the prototype on the back wall of the test chamber near the top, and hang the microbial carrier at a distance of 80cm from the prototype wall and a height of 1.2m.

 Test Microorganism: Staphylococcus aureus subsp. aureus ATCC 43300  
 Pasteurella multocida subsp. Multocida ATCC 43137  
 Aspergillus niger ATCC 6275

Objects used: Textile

 Chamber size: 10m<sup>3</sup>
**Removal rate - Summary**

The test microorganism	Action time	Serial Number	Average cfu of positive controls (cfu/pc)	Average cfu of testing groups (cfu/pc)	Sterilization logarithm	Target pollutant (microbial) removal rate (%)	
Pasteurella multocida subsp. Multocida ATCC 43137	0.5 h	1	6.6×10 <sup>5</sup>	6.4×10 <sup>5</sup>	0.01	3.03	
		2	6.8×10 <sup>5</sup>	6.7×10 <sup>5</sup>	0	1.47	
		3	6.9×10 <sup>5</sup>	6.7×10 <sup>5</sup>	0.01	2.90	
	<b>Average</b>						<b>2.47</b>
	1 h	1	6.6×10 <sup>5</sup>	6.1×10 <sup>5</sup>	0.04	7.58	
		2	6.8×10 <sup>5</sup>	6.2×10 <sup>5</sup>	0.04	8.82	
		3	6.9×10 <sup>5</sup>	6.3×10 <sup>5</sup>	0.04	8.69	
	<b>Average</b>						<b>8.36</b>
	2 h	1	6.6×10 <sup>5</sup>	5.7×10 <sup>5</sup>	0.06	13.64	
		2	6.8×10 <sup>5</sup>	5.9×10 <sup>5</sup>	0.06	13.24	
		3	6.9×10 <sup>5</sup>	6.1×10 <sup>5</sup>	0.06	11.59	
	<b>Average</b>						<b>12.82</b>
	4 h	1	6.6×10 <sup>5</sup>	5.2×10 <sup>5</sup>	0.10	21.21	
		2	6.8×10 <sup>5</sup>	5.3×10 <sup>5</sup>	0.11	22.06	
		3	6.9×10 <sup>5</sup>	5.5×10 <sup>5</sup>	0.10	20.29	
	<b>Average</b>						<b>21.19</b>

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**Received Date:** 2025-12-21

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**Sample & Steup Information**

Description of Sample: Rectangular Equipment

Customer ID: N/A

SGS ID: SHFT2512000694HS M3

Sample placement: Place the prototype on the back wall of the test chamber near the top, and hang the microbial carrier at a distance of 80cm from the prototype wall and a height of 1.2m.

 Test Microorganism: Staphylococcus aureus subsp. aureus ATCC 43300  
 Pasteurella multocida subsp. Multocida ATCC 43137  
 Aspergillus niger ATCC 6275

Objects used: Textile

 Chamber size: 10m<sup>3</sup>
**Removal rate - Summary**

The test microorganism	Action time	Serial Number	Average cfu of positive controls (cfu/pc)	Average cfu of testing groups (cfu/pc)	Sterilization logarithm	Target pollutant (microbial) removal rate (%)	
Aspergillus niger ATCC 6275	0.5 h	1	6.2×10 <sup>5</sup>	6.2×10 <sup>5</sup>	0	0	
		2	6.1×10 <sup>5</sup>	6.0×10 <sup>5</sup>	0	1.64	
		3	6.4×10 <sup>5</sup>	6.3×10 <sup>5</sup>	0.01	1.56	
	<b>Average</b>						<b>1.07</b>
	1 h	1	6.2×10 <sup>5</sup>	6.0×10 <sup>5</sup>	0.01	3.23	
		2	6.1×10 <sup>5</sup>	5.9×10 <sup>5</sup>	0.01	3.28	
		3	6.4×10 <sup>5</sup>	6.2×10 <sup>5</sup>	0.02	3.12	
	<b>Average</b>						<b>3.21</b>
	2 h	1	6.2×10 <sup>5</sup>	5.9×10 <sup>5</sup>	0.02	4.84	
		2	6.1×10 <sup>5</sup>	5.7×10 <sup>5</sup>	0.02	6.56	
		3	6.4×10 <sup>5</sup>	6.1×10 <sup>5</sup>	0.03	4.69	
	<b>Average</b>						<b>5.36</b>
	4 h	1	6.2×10 <sup>5</sup>	5.7×10 <sup>5</sup>	0.03	8.06	
		2	6.1×10 <sup>5</sup>	5.5×10 <sup>5</sup>	0.04	9.84	
		3	6.4×10 <sup>5</sup>	5.9×10 <sup>5</sup>	0.04	7.81	
	<b>Average</b>						<b>8.57</b>

Note:

1. Sterilization logarithm= The logarithmic value of the average viable bacteria concentration in the control group- The logarithmic value of the average viable bacteria concentration in the experimental group.

2. Removal rate=(Average cfu of positive controls – Average cfu of testing groups)/Average cfu of positive controls\*100%.

—End of the Report—

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