

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
SHFT2512000694HS M2
SHFT2512000694HS M3**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

 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: 10m³
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 ⁵	6.0×10 ⁵	0	1.64
		2	6.4×10 ⁵	6.3×10 ⁵	0.01	1.56
		3	6.3×10 ⁵	6.3×10 ⁵	0	0
	Average					1.07
	1 h	1	6.1×10 ⁵	5.8×10 ⁵	0.02	4.92
		2	6.4×10 ⁵	6.2×10 ⁵	0.02	3.12
		3	6.3×10 ⁵	6.0×10 ⁵	0.02	4.76
	Average					4.27
	2 h	1	6.1×10 ⁵	5.7×10 ⁵	0.02	6.56
		2	6.4×10 ⁵	5.9×10 ⁵	0.04	7.81
		3	6.3×10 ⁵	5.8×10 ⁵	0.04	7.94
	Average					7.44
	4 h	1	6.1×10 ⁵	5.3×10 ⁵	0.06	13.11
		2	6.4×10 ⁵	5.6×10 ⁵	0.06	12.50
		3	6.3×10 ⁵	5.4×10 ⁵	0.07	14.29
	Average					13.30

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

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 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: 10m³

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 ⁵	6.4×10 ⁵	0.01	3.03
		2	6.8×10 ⁵	6.7×10 ⁵	0	1.47
		3	6.9×10 ⁵	6.7×10 ⁵	0.01	2.90
	Average					2.47
	1 h	1	6.6×10 ⁵	6.1×10 ⁵	0.04	7.58
		2	6.8×10 ⁵	6.2×10 ⁵	0.04	8.82
		3	6.9×10 ⁵	6.3×10 ⁵	0.04	8.69
	Average					8.36
	2 h	1	6.6×10 ⁵	5.7×10 ⁵	0.06	13.64
		2	6.8×10 ⁵	5.9×10 ⁵	0.06	13.24
		3	6.9×10 ⁵	6.1×10 ⁵	0.06	11.59
	Average					12.82
	4 h	1	6.6×10 ⁵	5.2×10 ⁵	0.10	21.21
		2	6.8×10 ⁵	5.3×10 ⁵	0.11	22.06
		3	6.9×10 ⁵	5.5×10 ⁵	0.10	20.29
	Average					21.19

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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 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: 10m³
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 ⁵	6.2×10 ⁵	0	0
		2	6.1×10 ⁵	6.0×10 ⁵	0	1.64
		3	6.4×10 ⁵	6.3×10 ⁵	0.01	1.56
	Average					1.07
	1 h	1	6.2×10 ⁵	6.0×10 ⁵	0.01	3.23
		2	6.1×10 ⁵	5.9×10 ⁵	0.01	3.28
		3	6.4×10 ⁵	6.2×10 ⁵	0.02	3.12
	Average					3.21
	2 h	1	6.2×10 ⁵	5.9×10 ⁵	0.02	4.84
		2	6.1×10 ⁵	5.7×10 ⁵	0.02	6.56
		3	6.4×10 ⁵	6.1×10 ⁵	0.03	4.69
	Average					5.36
	4 h	1	6.2×10 ⁵	5.7×10 ⁵	0.03	8.06
		2	6.1×10 ⁵	5.5×10 ⁵	0.04	9.84
		3	6.4×10 ⁵	5.9×10 ⁵	0.04	7.81
	Average					8.57

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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SGS's TEST REPORT ONLY REFLECTS SGS'S EVALUATION OF THE SAMPLE AND DOES NOT REFLECT THE EVALUATION OF THE BATCH OF GOODS FROM WHICH THE SAMPLE WAS TAKEN