

Air Cleaner Test Report

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1. Sample Description

Product	: Air Cleaner
Brand Name	: b-MOLA
Model(s)	: IA20
No. of Sample Received	: 1
Test Date	: 27 Nov 2019
Test Standard(s)	GB 21551.3-2020
Test Item(s)	: 1. Bacteria Removal Efficiency <ul style="list-style-type: none">- Staphylococcus Albus (8032)- Staphylococcus Aureus (ATCC 6538) 2. Virus Removal Efficiency <ul style="list-style-type: none">- Bacteriophage (Phi-X174)
Test Result	: See the attached sheets
Remark	: This report refers to test report published by Guang Zhou Institute of Microbiology (Report Number: KY20190132) Client claimed that model IA20 same as BM50. Only difference is the selling platform.

2. Detail Description of the sample(s)



b-MOLA/IA20



NCCO Reactor and Normal White HEPA



3. Result of Bacteria Removal Efficiency

Test Duration (min)		Bacteria Under Test		
120		Staphylococcus Albus (8032)		
Reference Group				
Sample Number	Initial Average Bacteria Conc. V_0 (cfu/m ³)	Final Average Bacteria Conc. V_t (cfu/m ³)	Natural Decay Rate (%)	
1	1.31×10^5	8.48×10^4	35.27	
2	1.27×10^5	7.96×10^4	37.32	
3	1.34×10^5	8.82×10^4	34.18	
Test Group				
Sample Number	Initial Average Bacteria Conc. V_1 (cfu/m ³)	Final Average Bacteria Conc. V_2 (cfu/m ³)	Removal Efficiency (%)	
1	1.29×10^5	7	99.99	
2	1.25×10^5	7	99.99	
3	1.32×10^5	7	99.99	
Average			99.99	

Remark

1. For detail test procedure, please refer to the original test report published by Guang Zhou Institute of Microbiology.
2. Removal efficiency have already considered the natural decay of specified bacteria.



Test Duration (min)		Bacteria Under Test		
120		Staphylococcus Aureus (ATCC 6538)		
Reference Group				
Sample Number	Initial Average Bacteria Conc.	Final Average Bacteria Conc.	Natural	
	V_0 (cfu/m ³)	V_t (cfu/m ³)	Decay Rate (%)	
1	1.17×10^5	7.06×10^4	39.66	
2	1.21×10^5	7.63×10^4	36.94	
3	1.14×10^5	7.25×10^4	36.40	
Test Group				
Sample Number	Initial Average Bacteria Conc.	Final Average Bacteria Conc.	Removal	
	V_1 (cfu/m ³)	V_2 (cfu/m ³)	Efficiency (%)	
1	1.19×10^5	7	99.99	
2	1.23×10^5	7	99.99	
3	1.11×10^5	7	99.99	
Average			99.99	

Remark

1. For detail test procedure, please refer to the original test report published by Guang Zhou Institute of Microbiology.
2. Removal efficiency have already considered the natural decay of specified bacteria.



4. Result of Virus Removal Efficiency

Test Duration (min)		Virus Under Test		
120		Bacteriophage (Phi-X174)		
Reference Group				
Sample Number	Initial Average Virus Conc.	Final Average Virus Conc.	Natural Decay Rate	
	V_0 (pfu/m ³)	V_t (pfu/m ³)	(%)	
1	1.16×10^5	6.38×10^4	45.00	
2	1.19×10^5	6.73×10^4	43.45	
3	1.10×10^5	6.15×10^4	44.09	
Test Group				
Sample Number	Initial Average Virus Conc.	Final Average Virus Conc.	Removal Efficiency	
	V_1 (pfu/m ³)	V_2 (pfu/m ³)	(%)	
1	1.21×10^5	14	99.98	
2	1.17×10^5	28	99.96	
3	1.04×10^5	14	99.98	
Average			99.97	

Remark

1. For detail test procedure, please refer to the original test report published by Guang Zhou Institute of Microbiology.
2. Removal efficiency have already considered the natural decay of specified virus.

*** End of Report ***