

(Original Report in Chinese Writing)

Military Medical Sciences, Institute of Microbiology and Epidemiology

TEST REPORT

Bacteria Test

(Staphylococcus Aureus)

Report No: 2007-V-0005

Sample Tested: 'Bio-Oxygen' Air Purifier

Test Date: 2007, June 12th

Report Date: 2007, June 18th

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Declaration

1. The submission of this report is only responsible for the results of the sample.
2. If the present report is altered or deleted then it shall be invalid. If the report is not stamped with the official seal on every chapter then it shall be void.
3. A copy of this report shall be faxed for reference only but the original report shall prevail.
4. This report and the name of this body shall not be used for product labelling, trade description and advertising and so on.
5. Any disagreement with this report, following the report, called after one month, the original managers of the new provisions state that a late complaint shall be inadmissible.
6. The present report is in triplicate, a cross submission unit, the two archives.

Military Medical Sciences, Institute of Microbiology and Epidemiology

2005, January

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Institute of Microbiology and Epidemiology

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Test Report Sheet (Main Page)

Principal: Ming Duang

Company: Beijing Othai Environmental Science & Technology Co. Test Date: 2007, June 12

Name of Equipment: 'Bio-Oxygen' Air Purifier

Number of Equipment & Condition: one, normal in line for testing

Manufacturer: Beijing Othai Environmental Science & Technology Co.

Product Lot: N/A

Sample Code: 2007-V-0005

Sample Received by: Jianjun Zhao

Test Date: 2007, June 12

Purpose and Requirement of Test: To test the disinfection efficiency with microbial aerosols

Test Standard: Reference (Disinfection Technical Specifications – 2002 Edition)

Persons performing Test: Jianjun Zhao, Jie Wang, Gubuo Weng

Testing Conditions and Procedures (a brief description):

1. Micro-organism Tested: Staphylococcus Aureus 6538
2. TK Microbial Aerosol Generator, Anderson 6 airborne Microbial Sampler, Aerosol Counter and so on.
3. TK Microbial Aerosol Generator generating Staphylococcus Aureus produced aerosols, spray flow 8 l/minute. Aerosol concentration after 5 minutes: 1.4×10^5 and then turn on Air Purifier, adjust output to No.8 and test each sample for 5, 10 and 30 minutes. The sampling airflow capacity is 28.3 l/minute and the sampling time is 1 minute, 2 minutes respectively. The control group is tested without the air purifier for an equal time. The sampling airflow and time were the same.
4. The above tests are repeated 3 times.
5. The bacteria samples are then incubated at 37 C

Test Result

The average disinfection efficiency of the Bio-Oxygen Air Purifier is:

After 5 Minutes = 99.73%

After 10 Minutes = 99.91%

After 30 Minutes = 99.27%

The detailed results are shown on the attached table.

Test Person/Technical Title: Zhagbo Weng, Assistant Researcher
2007, June 18

Review Panel Signatures:

Wenchen Lu, Song Li, Kai Zhao

Under Institute Seal

Test Results

The Air Purifier was tested for the disinfection of *Stapylococcus Aureus* with the following results:

Number of times Tested	Disinfection Time (Minutes)	Control without Disinfection (CFU/m3)	Surviving Numbers (CFU/m3)	Test Group	
					Reduction (%)
1	5	120333	0		100
	10	38627	0		100
	30	12086	0		100
2	5	120333	247		99.79
	10	38627	35		99.91
	30	12086	0		100
3	5	120333	707		99.41
	10	38627	71		99.82
	30	12086	265		97.81