



**广微测**  
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**GUANGDONG DETECTION CENTER OF MICROBIOLOGY**

**REPORT FOR ANALYSIS**

**Report No.** 2022FM10597R01E

**Name of Sample** OH-FEEL HYDROXYL AIR PROTECTION SYSTEM  
(OH-FEEL OH500F08 Air sterilizer)

**Applicant** SHENZHEN OH-FEEL TECHNOLOGY CO., LTD.

**Test Type** Entrustment Test



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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report No.: 2022FM10597R01E

一. Test Equipment

1. The volume of test site: 40m<sup>3</sup>.

2. Use instrument: Biochemical incubator (No.: QFM-B-S051), BY-300 Air Microbial Sampler (No.: QFM-B-S046).

3. Medium: Nutrient agar (Lot No. :20220523).

二. Method

1. Test method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.3

2. Test conditions: temperature: 24.8°C, Relative humidity: 62%.

3. Method description: In a 40m<sup>3</sup> laboratory, use BY-300 air microbial sampler to sample at a flow rate of 28.3 L/min. Place the sampler at a height of 1m in the center of the laboratory. Set a sampling point. The sampling time is 5min. The sample machine to be tested is installed at the far end of the laboratory. The tested prototype is installed at the far end of the laboratory, The sample turns on the sterilization button and the sterilization button, and enters the sterilization mode for testing, The action time was 60min. use the same method to sample the air in the space at the same sampling point. The sampling time is 5min. The petri dishes after air sampling are placed in an incubator and incubate at 37.0°C for 48h. The experiment is repeated three times.

三. Test Result

Action time	Test organism	Serial Number	Number of control colonies before disinfection (cfu/m <sup>3</sup> )	Number of remaining colonies after disinfection (cfu/m <sup>3</sup> )	Extinction rate (%)
60min	Natural bacteria in air	1	2.1×10 <sup>3</sup>	1.6×10 <sup>2</sup>	92.38
		2	2.6×10 <sup>3</sup>	2.3×10 <sup>2</sup>	91.15
		3	1.7×10 <sup>3</sup>	1.2×10 <sup>2</sup>	92.94

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ANALYSIS AND TEST RESULT

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一. Test Equipment

1. The volume of the aerosol chamber: 20m<sup>3</sup>
2. Test strain: *Staphylococcus albicans* (8032) the strain is the 4th generation.
3. Use instrument: Biochemical incubator (No. :QFM-B-S051), Water bath (No. :QFM-B-K038), JW-6 Six level sieve pore striker air microorganism sampler (No. :QFM-B-S006).
4. Medium: Nutrient agar (Lot No.:20220606).

二. Method

1. Test method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.3.4
2. Test conditions: temperature: 23.9℃, Relative humidity: 65%。
3. Method description: Method description: The test was conducted in a 20m<sup>3</sup> aerosol chamber. The temperature, humidity and air pressure of the aerosol chamber were adjusted to meet the test requirements. The pressure and the air flow of the atomizer were pre-set, and the bacteria suspension was sprayed into the entire aerosol chamber while the fan was stirred in this spray procedure. After that, the fan continued to stir for 5min and then stood for 5min. The number of positive control bacteria should reach for 5.0×10<sup>4</sup>cfu/m<sup>3</sup>~5.0×10<sup>6</sup>cfu/m<sup>3</sup>. An air sampler was used to sample the test group and the control group in the aerosol chamber before disinfection. The sampler was placed at a height of 1m in the middle of the aerosol chamber and was sampled at a flow rate of 28.3L/min for 10s. In the test group, the tested machine was installed at the far end of the aerosol chamber, The sample turns on the sterilization button and the sterilization button, and enters the sterilization mode for testing, The action time was 1h. The test group was sampled in accordance with the above method, and the sampling time was 5min. The control group was treated at the same way with no test machine in the chamber and the sampling time after treatment was 10s. The petri dishes after air sampling were placed in an incubator and incubated at 37℃ for 48h. The experiment was repeated three times.

三. Test Result

Test strain	Action time	Test group	Control group		Test group	
			Number of viable colonies (cfu/m <sup>3</sup> )	Natural extinction rate (%)	Number of viable colonies (cfu/m <sup>3</sup> )	Killing rate (%)
<i>Staphylococcus albus</i> 8032	0	1	1.1×10 <sup>5</sup>	/	1.3×10 <sup>5</sup>	/
		2	1.3×10 <sup>5</sup>	/	1.4×10 <sup>5</sup>	/
		3	1.2×10 <sup>5</sup>	/	1.5×10 <sup>5</sup>	/
	1h	1	7.5×10 <sup>4</sup>	31.82	28	99.97
		2	8.7×10 <sup>4</sup>	33.08	28	99.97
		3	7.9×10 <sup>4</sup>	34.17	28	99.97

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/ 2022.03.10 / 2022.03.10

