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广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测报告

REPORT FOR ANALYSIS

报告编号

Report No.

2020SP14487R01D

样品名称

Name of Sample

紫外线消毒机机器人

UVC STERILIZING ROBOT

委托单位

Applicant

深圳市小洁机器人有限公司

SHENZHEN SEGOO ROBOT CO.,LTD

检测类型

Test Type

委托检测

Entrustment Test

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广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY 分析检测报告

REPORT FOR ANALYSIS



报告编号 (Report No) 2020SP14487R01D 校验码 (Verification Code): 91706354

样品名称 Name of Sample	紫外线消毒机器人 UVC STERILIZING ROBOT	检测类型 Test Type	委托检测 Entrustment Test
委托单位 Applicant	深圳市小洁机器人有限公司 SHENZHEN SEGOO ROBOT CO.,LTD	地址 Address	深圳市南山区粤美特大厦 1901 1901, IMT building, Nanshan District, Shenzhen
样品来源 Sample Source	委托方送检 Submitted for Testing by the Applicant	样品数量 Sample Quantity	1 台 One
样品规格和批号 Spec and Lot No of Sample	D146	样品状态和特性 State and Characteristic	机器 Machine
接样日期 Sample Received Date	2020-12-30	检测完成日期 Completion Date	2021-01-08
检测依据和方法 Test Standard and Method	《消毒技术规范》(卫生部 2002 年版) 第二部分-2.1.5.4.3 等 Technical Standard for Disinfection (Ministry of Health, Edition 2002), section 2-2.1.5.4.3, etc.		
检测项目 Item Tested	紫外线灯辐照强度等 Ultraviolet radiation intensity, etc.		
检测结论 Test Conclusion	送检样品所检项目的实测数据见本检测报告续页。 The test data of the sample(s) is attached to the page(s) of this report. 签发日期: 2021-01-18 Issue Date: 18 (机构盖章 Official Seal)		
备注 Remarks	①生产厂家: 深圳市宝安区福永街道大洋路中粮(福安)机器人智造产业园孵化器第15栋401号 Manufacturer: NO.401, Building NO.15, Incubator, Robot Zhizao Industries Park, COFCO (Fu'an) Dayang Road, Fuyong Sub-district, Bao'an District, Shenzhen ②HBOT12U, HBOT13U 系列的紫外线消毒机器人与本送检样品具有相似的性能。 HBOT12U, HBOT13U named as UVC STERILIZING ROBOT have similar function to this submitted sample tested. (由委托方提供 Provided by the applicant)		

小日微生
一
检验

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广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

分析检测结果

ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2020SP14487R01D

一、紫外线灯辐照强度 Ultraviolet radiation intensity

1. 试验方法: 《消毒技术规范》(卫生部 2002 年版) - 2.1.5.4.3。

Test Method: Technical Standard for Disinfection (Ministry of Health, Edition 2002), section 2-2.1.5.4.3

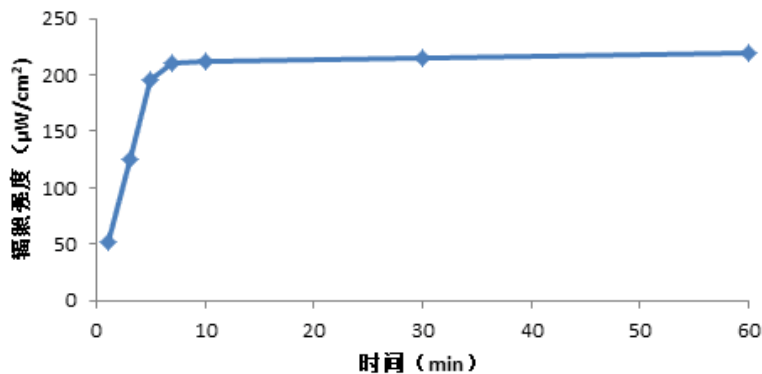
2. 方法简述: 开启样品紫外线灯, 将照度计探头置于灯组中央, 垂直距离 1m 处, 分别于开启 1min、3min、5min、7min、10min、30min、60min 时测量其辐照强度 ($\mu\text{W}/\text{cm}^2$)。

Methods briefly: Turned on the sample ultraviolet lamp, placed the probe of the illuminometer in the center of the lamp group with a vertical distance of 1 m, and measured the irradiation intensity at 1 min, 3 min, 5 min, 7 min, 10 min, 30 min and 60 min respectively ($\mu\text{W}/\text{cm}^2$).

3. 测试结果 Test results:

测试距离 test distance	开启时间 opening time	辐照强度 radiation intensity ($\mu\text{W}/\text{cm}^2$)
1m	1min	51.8
	3min	125
	5min	196
	7min	210
	10min	212
	30min	215
	60min	219

4. 变化曲线 Change curve



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二、对其它表面消毒模拟现场鉴定试验 Other surface disinfection simulated field identification tests

1. 检测方法: 《消毒技术规范》(卫生部 2002 年版) - 2.1.2.9

Test method: Technical Standard for Disinfection(Ministry of Health, Edition 2002), section 2-2.1.2.9

2. 作用载体 Test carrier: 硬质物体表面-桌面: hard surface - desktop

4. 作用时间 Test time: 6min; 作用距离 Test distance: 1m

5. 测试结果 Test results:

测试菌株 Test organism	试验组别 Test group	试验组平均菌落数 Average cfu of testing groups (cfu/样本 sample)	对照组平均菌落数 Average cfu of positive controls (cfu/样本 sample)	杀灭对数值 Sterilization logarithm (KL)	杀灭率 Sterilization rate (%)
大肠杆菌 (<i>Escherichia coli</i>) 8099	1	1.1 × 10 ²	1.8 × 10 ⁷	5.22	99.99
	2	4.1 × 10 ²	2.6 × 10 ⁷	4.80	99.99
	3	5.5 × 10 ²	3.1 × 10 ⁷	4.75	99.99
	4	1.6 × 10 ²	1.7 × 10 ⁷	5.03	99.99
	5	2.7 × 10 ²	2.2 × 10 ⁷	4.91	99.99
	6	4.2 × 10 ²	2.9 × 10 ⁷	4.84	99.99
	7	65	1.7 × 10 ⁷	5.42	99.99
	8	1.2 × 10 ²	2.1 × 10 ⁷	5.24	99.99
	9	4.8 × 10 ²	2.7 × 10 ⁷	4.75	99.99
	10	5.5 × 10 ²	3.2 × 10 ⁷	4.77	99.99
	11	1.9 × 10 ²	2.1 × 10 ⁷	5.04	99.99
	12	1.2 × 10 ²	1.9 × 10 ⁷	5.20	99.99
	13	65	1.9 × 10 ⁷	5.47	99.99
	14	2.1 × 10 ²	2.2 × 10 ⁷	5.02	99.99
	15	4.2 × 10 ²	1.8 × 10 ⁷	4.64	99.99
	16	3.2 × 10 ²	2.4 × 10 ⁷	4.87	99.99
	17	1.6 × 10 ²	1.7 × 10 ⁷	5.03	99.99
	18	2.9 × 10 ²	2.3 × 10 ⁷	4.90	99.99
	19	15	2.1 × 10 ⁷	6.14	99.99
	20	4.6 × 10 ²	2.7 × 10 ⁷	4.77	99.99
	21	45	1.7 × 10 ⁷	5.58	99.99
	22	1.2 × 10 ²	2.1 × 10 ⁷	5.24	99.99
	23	2.7 × 10 ²	2.4 × 10 ⁷	4.95	99.99
	24	1.7 × 10 ²	1.7 × 10 ⁷	5.00	99.99
	25	2.3 × 10 ²	2.7 × 10 ⁷	5.07	99.99
	26	2.7 × 10 ²	1.7 × 10 ⁷	4.80	99.99
	27	4.6 × 10 ²	2.7 × 10 ⁷	4.77	99.99
	28	2.4 × 10 ²	2.0 × 10 ⁷	4.92	99.99
	29	1.3 × 10 ²	2.2 × 10 ⁷	5.23	99.99
	30	1.6 × 10 ²	1.7 × 10 ⁷	5.03	99.99
平均值 Average				5.05	99.99

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广东省微生物分析检测中心

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分析检测结果

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三、空气消毒效果鉴定试验 (模拟现场试验) Disinfection efficiency for air (Simulated field test)

1. 试验方法: 《消毒技术规范》(卫生部 2002 年版) - 2.1.3.4

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

2. 测试环境相对湿度 Environment relatively humidity: 62%

测试环境温度 Environment temperature: 24°C

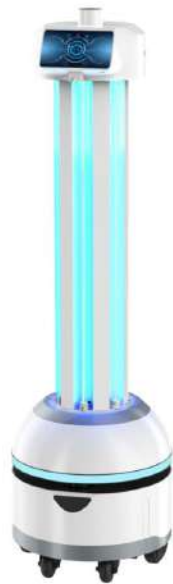
3. 测试结果 Test results:

测试微生物 Test organisms	作用时间 Test time	作用组别 Test groups	试验组空气含菌量 Air bacteria content of experimental group (cfu/m ³)	杀灭率 Sterilization rate (%)
白色葡萄球菌 (<i>Staphylococcus albus</i>) 8032	0min	1	7.0×10 ⁴	/
		2	7.2×10 ⁴	/
		3	7.6×10 ⁴	/
	6min	1	35	99.95
		2	28	99.96
		3	35	99.95

注: 杀灭率试验结果已消除微生物在空气中自然消亡因素的影响

Note: The result of bactericidal rate test has eliminated the effect of microbial natural decay in air.

样品照片 photo of the sample:



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注意事项 Notice Items

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Unless otherwise stated, the results shown in this test report refer only to the sample(s) submitted.

6. 对检测报告有异议的, 应于收到报告之日起十五日内提出, 逾期不予受理。

Any dispute of the report must be raised to the testing body within 15 days after the report is received, exceeding which the dispute will not be accepted.

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