



Gair Air Disinfectant

The simplest way to improve your Indoor Air Quality (IAQ) by killing viruses and bacteria in your working and living space



What is Gair Air Disinfectant?

A patented gel matrix formula that can be placed in anywhere. The novel nano materials in the formula have high efficiency to activate oxygen molecules in air. The reactive oxygen species (ROS) kill virus and bacteria by breaking down its protein coating. No energy source such as heating or uv light is required.



Gair Air Disinfectant improves IAQ by

- Killing viruses (including H3N2, H1N1, SARS viruses)
- Killing bacteria
- Eliminating indoor odours.

Why do I need Gair Air Disinfectant?

To reduce Sick Building Syndrome

Sick Building Syndrome (SBS) is a combination of ailments associated with an individual's place of work or residence. A 1984 World Health Organization report into the syndrome suggested up to 30% of new and re-modelled buildings worldwide may be linked to symptoms of SBS. Most of the sick building syndrome is related to poor indoor air quality. Sick building causes are frequently pinned down to flaws in the heating, ventilation and air-conditioning (HVAC) systems. Symptoms: Sensory irritation of the eyes, nose, throat; Neurotoxic or general health problems; Skin irritation & Nonspecific hypersensitivity reactions; and odour and taste sensations."

https://en.wikipedia.org/wiki/Sick_building_syndrome

In Singapore, **1 in 5** people suffers from sick building syndrome.

How is Gair Air Disinfectant installed?

It couldn't be easier. Push down the pre-positioned powder and let it mix with the transparent water-based solution. The water-based solution turns to a gel form within 15 min. Then it can be put at anywhere as needed.

What size do I need and how long does the Gair Air Disinfectant last?

Gair Air Disinfectant comes mainly in 2 sizes (60 ml and 120 ml). It is designed for small space (vehicle, $\sim 3 \text{ m}^3$) and large space (living room, $\sim 30 \text{ m}^2$), respectively. Other sizes are available on per requested base. As a rule of thumb, each Gair product should be replaced bi-monthly.

Product certifications and testing reports

SGS: CANML1904833205

Certificate of Sterilization Technical Specification Regulation (China):
01041900012307

Test reports for virus eliminating rate: H3N2 flu virus >99.99%
(2020FM01027R02); Poliovirus type I > 99.99% (2020FM01027R01)
(Guangdong Detection Center of Microbiology)

Gair Air Disinfectant Solution

Gair Air Disinfectant is also available in solution form. This solution is compatible with Gair aerosol dispenser. The dispensable amount and range are adjustable according to needs.



Benefits of Gair Air Disinfectant

1. Kills viruses (including H1N1, H3N2, SARS viruses)
2. Kills bacteria
3. Improves indoor air quality (IAQ) by treating the entire air-conditioned system
4. Eliminates odour causing bacteria instead of just masking the smell
5. Simple to install (e.g. for Green Mark assessment or to reduce sick building syndrome)
6. Regular maintenance cycle with less operational costs
7. Provide 24/7 full protection for the indoor air environments

Company Address

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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.): 2020FM01027R01

2.检测项目: 病毒灭活试验
2.1.检测方法: 《消毒技术规范》2002年版-2.1.10.7 脊髓灰质炎病毒灭活试验
2.2.试验结果:

实验病毒 及宿主	作用浓度 及时间	组别	病毒滴度对数值 lgTCID ₅₀ /ml	平均病毒 滴度对数值 lgTCID ₅₀ /ml	病毒总数 TCID ₅₀ /ml	平均灭活 对数值 (KL)	病毒 灭活率 (%)
脊髓灰质 炎病毒-1 型疫苗株 宿主名称: Vero细胞	照液 5min	对照组1	9.99	5.93	8.51×10 ⁷	>4.30	>99.99
		对照组2	5.80				
		对照组3	6.00				
		试验组1	<1.50	<1.50	<11.6		
		试验组2	<1.50				
		试验组3	<1.50				

*阳性对照组试验结果符合评价规定的全部条件。
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Poliovirus type I >99.99%

2020FM01027R01



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2.检测项目: 病毒灭活试验
2.1.检测方法: 参照《消毒技术规范》2002年版-2.1.10.7 脊髓灰质炎病毒灭活试验
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实验病毒 及宿主	作用浓度 及时间	组别	病毒滴度对数值 lgTCID ₅₀ /ml	平均病毒 滴度对数值 lgTCID ₅₀ /ml	病毒总数 TCID ₅₀ /ml	平均灭活 对数值 (KL)	病毒 灭活率 (%)
甲型流感 病毒 H3N2 型疫苗株 宿主名称: MDCK 细 胞	照液 5min	对照组1	6.32	6.31	1.29×10 ⁷	>4.61	>99.99
		对照组2	6.20				
		对照组3	6.00				
		试验组1	<1.50	<1.50	<11.6		
		试验组2	<1.50				
		试验组3	<1.50				

*阳性对照组试验结果符合评价规定的全部条件。
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H3N2 Flu virus >99.99%

2020FM01027R02



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脊髓灰质 炎病毒- I 型疫苗株 宿主名称: Vero 细胞	原液 5min	对照组 1	6.00	5.93	8.51×10 ⁵	>4.30	>99.99	
		对照组 2	5.80					
		对照组 3	6.00					
		试验组 1	<1.50	<1.50	<31.6			
		试验组 2	<1.50					
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English version translated from the test Report No. 2020FM01027R01

Report No. 2020FM01027R01

2. Testing Project: Virus Inactivation Test

2.1 Testing Methods: Spinal Polio Virus Inactivation Test, Disinfection Technical Specifications (2002)

2.11.10.7

2.2 Test results

Experimental viruses and hosts	Concentration and time of action	Test Group	Virus concentration in log value (lgTCID50/ml)	Average virus concentration in log value (lgTCID50/ml)	Total number of viruses (TCID50/ml)	Average inactivation in log values (KL)	Virus inactivation rate (%)	
Spinal poliovirus type -1 Vaccine strain Host: Vero Cell	Dope 5 min	Control group1	6.00	5.93	8.51×10 ⁵	>4.30	>99.99	
		Control group2	5.50					
		Control group3	6.00					
		Test group1	<1.5	<1.50	<31.6			
		Test group2	<1.5					
		Test group3	<1.5					

*Negative control test results meet all the criteria set out in the evaluation

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甲型流感病 毒 H3N2 宿主名称: MDCK 细 胞	原液 5min	对照组 1	6.12	6.11	1.29×10 ⁶	>4.61	>99.99	
		对照组 2	6.20					
		对照组 3	6.00					
		试验组 1	<1.50	<1.50	<31.6			
		试验组 2	<1.50					
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Influenza A: H3N2 Vaccine strain Host: MDCK cell	Dope 5 min	Control group1	6.00	6.11	1.29×10 ⁶	>4.61	>99.99	
		Control group2	6.20					
		Control group3	6.00					
		Test group1	<1.5	<1.50	<31.6			
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