

**TMI Medical • Hospital Infection Control**



**Intelligent Disinfection Robot**



## Statement on the Sterilization Effect of Microorganisms

The TRD-01 disinfection robot of TMiRob adopts the sterilization principle of dry mist hydrogen peroxide( $H_2O_2$ ). The scope and effect of sterilization are as follows:

The requirement of disinfectant can be calculated based on the volume of the disinfection space. Take 8% food-grade  $H_2O_2$  disinfectant as an example:

Atomization speed	400g/h	Storage capacity	1L		
	Dosage (g/m <sup>3</sup> )	Space (m <sup>3</sup> /h)	Area(m <sup>2</sup> /h) (height:2.8m)	Area that 1L could cover(2.5 required)	Applications
7.5% $H_2O_2$ high-level	9	44	16	40	terminal disinfection (operating room, ward, ICU)
7.5% $H_2O_2$ mid-level	6	67	24	60	
7.5% $H_2O_2$ low-level	3	133	48	120	preventative disinfection(ward, outpatient and emergency department)
7.5% $H_2O_2$ Air disinfection	3	133	48	120	

According to the CMA-certified laboratory verification, by adopting the 8% food-grade  $H_2O_2$  disinfection solution, the sterilization effects shown in table 2 can be achieved. For viruses, bacteria, and fungi that are not listed in table 2, table 2 could be a reference for similar resistance microorganisms.

Room Disinfection Effect of TMiRob Disinfection robot			
Test Items		Bacterial species	Sterilization effect
Object Surface	hard object surface	staphylococcus aureus	>3log
		escherichia coli	
		spores of bacillus subtilis var niger	
	fabric surface	escherichia coli	
Air	air warehouse	staphylococcus albus	>2log
	confined space	natural bacteria in the air	

When using other concentrations or types of disinfectant, the disinfectant dosage of the robot should refer to the standard dosage of the specific disinfectant, the sterilization effect should also refer to the effect of the specific disinfectant at the standard dosage.



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