



National Institute of Parasitic Diseases

Chinese Center for Disease Control and Prevention

TEST REPORT

TEST ITEM: Antimicrobial efficacy of Pinger Curtain

TRUSTOR: Guangzhou Ruibo Plastic & Hardware Co., Ltd

TEST INSTITUE: National Institute of Parasitic Diseases, Chinese Center for Disease
Control and Prevention

TECHNICAL SUPERVISOR: Jun-yun Wang



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DATE OF REPORT: April 20, 2021



TEST REPORT

CCDC IPDT [2021] NO: 035

TEST ITEM: Antimicrobial efficacy of Pinger Curtain**TRUSTOR:** Guangzhou Ruibo Plastic & Hardware Co., Ltd**SAMPLES:** Pinger Curtain, Control sample**SAMPLES RECEIVING DATE:** Mar. 23, 2021.**REPORT DATE:** April. 20, 2021**Bacterial strains to be used:** *Staphylococcus aureus* ATCC 6538*Escherichia coli* ATCC 25922**Mould strains to be used** *Aspergillus niger* ATCC16404*Aspergillus terreus* AS 3.3935*Paecilomyces Vartoti* AS 3.4253*Penicillium funiculosum* ATCC10509*Aureobasium Pullulans* AS 3.3984*Chaetomium globsum* ATCC6205**TEST METHODS:**

According to the QB/T 2591-2003 "Antimicrobial Plastics-Test for antimicrobial activity and efficacy".

TEST RESULTS: Table 1 and Table 2

Table 1 Antibacterial efficacy of Pinger Curtain

Bacterial strains	The average No. of viable bacteria/test plate (CFU/plate)	The average No. of viable bacteria/control plate (CFU/plate)	Antibacterial Rate (%)
<i>Staphylococcus aureus</i>	0	2.7×10^5	100
<i>Escherichia coli</i>	0	4.61×10^5	100



Table 2 Anti-mould efficacy of Pinger Curtain

Mould strains	Group	The grade of mould growth	
		Testing plate	Control plate
<i>Penicillium funiculosum</i>	1	0	2
	2	0	2
	3	0	2
	4	0	2
	5	0	1

TEST REPORT

CCDC IPDT [2021] NO: 035

<i>Aspergillus niger</i>	1	0	2
	2	0	2
	3	0	2
	4	0	2
	5	0	2
<i>Chaetomium globsum</i>	1	0	2
	2	0	2
	3	0	2
	4	0	1
	5	0	2
<i>Aspergillus terreus</i>	1	0	2
	2	0	2
	3	0	2
	4	0	2
	5	0	2
<i>Paecilomyces Vartoti</i>	1	0	2
	2	0	2
	3	0	2
	4	0	2
	5	0	2
<i>Aureobasium Pullulans</i>	1	0	2
	2	0	2
	3	0	2
	4	0	2
	5	0	2

CONCLUSION

The tested sample Pinger Curtain shows 100% of Antibacterial rate to the *Staphylococcus aureus* and *Escherichia coli*, and "0" grade of mould growth for the 6 tested Mould strains. Therefore, the tested sample Pinger Curtain have strong effect for antibacterial and anti-mould according to the QB/T2591-2003 "Antimicrobial plastics-Test for antimicrobial activity and efficacy"

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