

Date : 15 April 2020 Page 1 of 1

Our Ref : ACL/MIS-OTH 200485B

Company : **ACE QUANTUM ENTEPRISE**
NO. 6, JALAN KEMPAS UTAMA 3/4,
TAMAN KEMPAS UTAMA,
81200 Johor Bahru

Date sample received : 6 April 2020


Sample description : Received one (1) sample labelled as **QUANTUM-ION® A SERIES ANTIMICROBIAL SPRAY**

Test Method : In House Method with reference to United States Pharmacopoeia 51

Type of bacteria used : *Escherichia coli* ATCC 8739
Staphylococcus aureus ATCC 6538
Pseudomonas aeruginosa ATCC 9027
Candida albican ATCC 10231
Aspergillus brasiliensis ATCC 16404

Results of Analysis

Parameters	Contact Time	Concentration of challenged microbes (cfu/ml)	Concentration of microbes recovered (cfu/ml)	Microbial reduction (%)
<i>Escherichia coli</i>	1 minute	3.0x10 ⁸	ND < 10	99.99
	5 minute	3.0x10 ⁸	ND < 10	99.99
	10 minute	3.0x10 ⁸	ND < 10	99.99
<i>Staphylococcus aureus</i>	1 minute	4.6x10 ⁸	ND < 10	99.99
	5 minute	4.6x10 ⁸	ND < 10	99.99
	10 minute	4.6x10 ⁸	ND < 10	99.99
<i>Pseudomonas aeruginosa</i>	1 minute	4.2x10 ⁸	ND < 10	99.99
	5 minute	4.2x10 ⁸	ND < 10	99.99
	10 minute	4.2x10 ⁸	ND < 10	99.99
<i>Aspergillus brasiliensis</i>	1 minute	1.4x10 ⁶	ND < 10	99.99
	5 minute	1.4x10 ⁶	ND < 10	99.99
	10 minute	1.4x10 ⁶	ND < 10	99.99
<i>Candida albicans</i>	1 minute	2.0x10 ⁶	ND < 10	99.99
	5 minute	2.0x10 ⁶	ND < 10	99.99
	10 minute	2.0x10 ⁶	ND < 10	99.99


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