



TEST REPORT

DATE: 07-10-2014

Page 1 of 4

TEST NUMBER: 0209991

CLIENT	MoJack Distributors
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TEST METHOD CONDUCTED	AATCC 100 Modified, Procedure MA210 PTL.208
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	AIR-O ₃

PURPOSE

Determine the efficacy of the AIR-O₃ system at reducing Staphylococcus aureus (staph) on common athletic clothing materials and most hard surfaces used in athletic locker rooms.

PROCEDURE

All testing and samples inoculation was conducted in a 1,050 cubic foot class 3 emissions chamber. The AIR-O₃ system was installed in one corner as directed by the client and 2" x 2" coupon of each of the eight locker room test materials were contained in a sterile tray in the center of the room.

The staph organism inoculum concentration (CFU/0.05 mL) was uniformly applied by the microbiologist technicians to each test material. The emission chambers HVAC system was turned off providing a static test environment.

The AIR-O₃ system was remotely turned on and allowed to run 30 minutes ± 10 seconds. After an additional 30 minutes ± 10 seconds in the static environment the technicians re-entered the chamber and neutralized the test materials.

RESULT SUMMARY



LOCKER ROOM MATERIALS

- 1: Concrete
- 2: VCT
- 3: Nylon Loop Carpet
- 4: Polyester Jersey Material
- 5: Tennis Shoe Foam Insole
- 6: Ceramic Tile
- 7: Stainless Steel
- 8: Painted Metal

STAPH REDUCTION EFFICACY

- 99.99%
- 99.92%
- 99.97%
- 99.99%
- 99.99%
- 99.99%
- >99.99%
- 99.99%

APPROVED BY:

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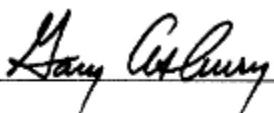


DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	AIR-O ₃

Organism: Staphylococcus aureus		ATCC: 6538
Sample 1 Concentrate	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		1.9 x 10 ⁶
Ozone Treated Sample		6.5 x 10 ¹
Percent Reduction		99.99%
Log Reduction		4.5

Organism: Staphylococcus aureus		ATCC: 6538
Sample 2 VCT	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		1.8 x 10 ⁶
Ozone Treated Sample		1.5 x 10 ³
Percent Reduction		99.92%
Log Reduction		3.1

Organism: Staphylococcus aureus		ATCC: 6538
Sample 3 Nylon Loop Carpet	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		8.5 x 10 ⁵
Ozone Treated Sample		2.2 x 10 ²
Percent Reduction		99.97%
Log Reduction		3.6

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IDENTIFICATION	AIR-O ₃

Organism: Staphylococcus aureus		ATCC: 6538
Sample 4 Polyester Jersey Material	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		2.5 x 10 ⁶
Ozone Treated Sample		3.4 x 10 ²
Percent Reduction		99.99%
Log Reduction		3.9

Organism: Staphylococcus aureus		ATCC: 6538
Sample 5 Tennis Shoe Foam Insole	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		3.4 x 10 ⁶
Ozone Treated Sample		5.5 x 10 ¹
Percent Reduction		99.99%
Log Reduction		4.8

Organism: Staphylococcus aureus		ATCC: 6538
Sample 6 Ceramic Tile	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10⁶
CFU Sample		
Sample – No Treatment		7.6 x 10 ⁶
Ozone Treated Sample		1.0 x 10 ¹
Percent Reduction		99.99%
Log Reduction		5.9

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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	AIR-O ₃

Organism: Staphylococcus aureus		ATCC: 6538
Sample 7 Stainless Steel	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10 ⁶
CFU Sample		
Sample - No Treatment		1.3 x 10 ⁶
Ozone Treated Sample		<1.0 x 10 ¹
Percent Reduction		>99.99%
Log Reduction		>5.1

Organism: Staphylococcus aureus		ATCC: 6538
Sample 8 Painted Metal	Inoculum Concentration (CFU / 0.05 mL)	2.1 x 10 ⁶
CFU Sample		
Sample - No Treatment		2.6 x 10 ⁶
Ozone Treated Sample		6.0 x 10 ¹
Percent Reduction		99.99%
Log Reduction		4.6

Additional Test Information

Pre-Treatment: Prior to inoculation samples were treated with ozone gas to reduce background contamination.

Sample Size: 50 mm x 50 mm

Culture Medium: Soybean Casein Digest Broth

Inoculum Carrier: Phosphate Buffered Water

Neutralizer: Dey-Engley Broth

Neutralizer Volume: 100 mL

Rinse Media: Fluid D

Rinse Volume: 100 mL

Growth Medium: Tryptic Soy Agar

NOTE: The samples were tested using membrane filtration as the mode of recovery.

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