FDA Certified Laboratory - Tri-Tech Analytical Laboratories Summaries

Test #3

Description: Measure the reduction of bacteria (Listeria monocytogenes) on surfaces after use of a Biozone Powerzone I Model

Results: 3 log reduction (99.9%) after 1 minute of treatment
5 log reduction (99.999%) after 2 minutes of treatment

Test #4

Description: Measure the reduction of bacteria (E. coli 0157) on surfaces after use of a Biozone Powerzone I Model

Results: 4 log reduction (99.99%) after 1 minute of treatment
5 log reduction (99.999%) after 2 minutes of treatment

Test - Biozone Photoplasma Experiment

Description: Measure the reduction of surface bacteria (E. coli, Salmonella, Listeria) on surfaces before and after use of a Biozone Air Purifier

Results: After 24 hours of use, there was no remaining bacteria

Complete Test Results on Following Pages

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DISINFECTION VALIDATION PROCESS

TEST RESULTS:

3. REDUCTION Listeria monocytogenes CONTAMINATION – NOT TREATED (NT) VERSUS TREATED (T)

AVERAGE OF 7 SAMPLES	RESULTS	UNITS
ONE (1) MINUTE TIME, EXPOSURE LEVEL A		
#1 - #7 Listeria monocytogenes/NT	$5\ 10^{(7)}$	CFU's
#1 - #7 Listeria monocytogenes/T	$2\ 10^{(4)}$	CFU's
	% Reduction	**3 LOG**
TWO (2) MINUTE TIME, EXPOSURE LEVEL B		
#1 - #7 Listeria monocytogenes/NT	$5\ 10^{(7)}$	CFU'S
#1 - #7 Listeria monocytogenes/T	$2\ 10^{(2)}$	CFU'S
	% Reduction	**5 LOG**

4. REDUCTION E. coli (0157) CONTAMINATION – NOT TREATED (NT) VERSUS TREATED (T)

ONE (1) MINUTE TIME, EXPOSURE LEVEL A		
#1 - #7 E. coli (0157)/NT	$3\ 10^{(7)}$	CFU's
#1 - #7 E. coli (0157)/T	$7\ 10^{(3)}$	CFU's
	% Reduction	**4 LOG**
TWO (2) MINUTE TIME, EXPOSURE LEVEL B		
#1 - #7 E. coli (0157)/NT	$3\ 10^{(7)}$	CFU's
#1 - #7 E. coli (0157)/T	$7\ 10^{(2)}$	CFU's
	% Reduction	**5 LOG**

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DISINFECTION VALIDATION PROCESS

OVERALL CONCLUSION DATA

The concentration of bacteria recovered from all inoculated treated samples analyzed show at least a 3 to 5 log reduction. This factor proves that the disinfectant process utilized in this study is effective in inhibiting the most common bacterial problems in producing a high quality product.

The concentration of E. coli (0157) bacteria recovered from only a one minute exposure treated samples, show a 5 log reduction. This factor proves that the disinfectant process utilized in this study is effective in inhibiting the most common bacterial problem in producing a high quality product

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02-06-1078

To:

Biozone Scientific
1180 19th Street
Vero Beach, Florida 32960
Attention: Mr Bryan Cecchi

Project:

Biozone Plasma Experiment

Test Protocol:
Infect E. Coli, Salmonella, and Listeria; all at 10^2, on to a cutting board and stainless steel utensils.
Place them in a controlled photoplasma environment.

Summary:
After 24 hours there was no remaining bacteria.

Test Specifics:

Biozone PhotoPlasma Experiment
Tri-tech Lab ID 02-06-1078A

Start time: June 28 10:00
Temperature: 21.5C
Setup: SB

Temperature at 15:50 23.5C
Temperature at 18:20 21.0C

End time: June 29 10:00
Temperature: 22.0C
End: LT

Sample ID	Exposure time 24 hours Test at 10:00	Comments
Cutting Board/Utensils W/E.c S.t. L.m. 10^2	Negative No Growth	Effective in this experiment