

14.05.2018
 Report No.: 16811.18
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Disinfection Test for Spray - Microbiological Examination Report

Customer:	Bar-Ilan University
Telephone:	050-7755343
E-Mail	eranchem@gmail.com
Date samples received:	23.04.2018
Aminolab No.:	033773.18M
Test Item	Plates with liquid

Method:

1. Aminolab SOP NO.50.WI.106, Version 6: Bioburden test – pre-sterilization estimation of population of microorganisms on/in medical devices.
2. Aminolab SOP NO.50.WI.034: Counting microorganisms using membrane filtration method.
3. Sponsor's instructions.

Test microorganism	<i>Staphylococcus aureus</i> ATCC 6538	<i>Escherichia coli</i> ATCC 8739
Incubation temperature	30-35°C	30-35°C
Incubation period	2 days	1 day
Test medium	Baird-Parker Agar	m-Endo LES Agar

Product Description:

Item #	<i>Staphylococcus aureus</i> ATCC 6538		<i>Escherichia coli</i> ATCC 8739	
	200 ppm HOCL	pH = 3	200 ppm HOCL	pH = 3
1	200 ppm HOCL	pH = 3	200 ppm HOCL	pH = 3
2	200 ppm HOCL	pH = 5.5-6	200 ppm HOCL	pH = 5.5
3	200 ppm HOCL	pH = 6.3	200 ppm HOCL	pH = 7.2
4	50 ppm HOCL	pH = 3	50 ppm HOCL	pH = 3.2
5	50 ppm HOCL	pH = 6.5	50 ppm HOCL	pH = 6.9

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Test procedure:

- 1 ml of suspension of the test microorganisms was added to 14 ml of the liquid product (see table product description) and further incubated for 3 or 10 minutes subsequently.
- After the incubation, 14 ml of neutralizing solution (Sodium Thiosulfate, Na₂S₂O₃, 0.1N) was added.
- The treated samples were tested to determine the bacterial load by the membrane filtration technique.
- 20 ml sterile buffer was filtered and incubated as above and served as a negative control.

Results:

Staphylococcus aureus ATCC 6538:


Sample Name	Tested incubation time	CFU/sample	Log	Log Reduction
200 ppm HOCL; pH = 3	3 minutes	<10	1	6.6
	10 minutes	<1	0	7.6
200 ppm HOCL; pH = 5.5-6	3 minutes	<10	1	6.6
	10 minutes	<1	0	7.6
200 ppm HOCL; pH = 6.3	3 minutes	<10	1	6.6
	10 minutes	<1	0	7.6
50 ppm HOCL; pH = 3	3 minutes	<10	1	6.6
	10 minutes	<1	0	7.6
50 ppm HOCL; pH = 6.3	3 minutes	<10	1	6.6
	10 minutes	<1	0	7.6
Negative control	N/A	No growth	NA	NA
Size of inoculum – Positive Control	N/A	4.4x10 ⁷	7.6	NA

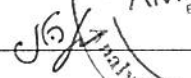
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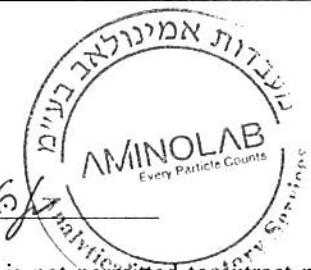
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Escherichia coli ATCC 8739

Sample Name	Tested incubation time	CFU/sample	Log	Log Reduction
200 ppm HOCL; pH = 3	3 minutes	<1	0	8
	10 minutes	<1	0	8
200 ppm HOCL; pH = 5.5	3 minutes	<1	0	8
	10 minutes	<1	0	8
200 ppm HOCL; pH = 7.2	3 minutes	<1	0	8
	10 minutes	<1	0	8
50 ppm HOCL; pH = 3.2	3 minutes	<1	0	8
	10 minutes	<1	0	8
50 ppm HOCL; pH = 6.9	3 minutes	<1	0	8
	10 minutes	<1	0	8
Negative control	N/A	No growth	NA	NA
Size of inoculum – Positive Control	N/A	1.0x10 ⁸	8.0	NA

Examined by Gortsunian Naira, Ph.D.: 

Checked and confirmed Helena Ashkenazi Ph.D, Lab. Manager: 



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*** End of certificate of analysis ***