

23/7/17

Experiment For examination the efficiency of Disinfectant for Work surfaces

On June 15th, 2017 an antiseptic efficacy test was conducted for 4 materials belonging to Rotal company.

A. Materials in the experiment:

1. Green Line- 777 (Concentration 1: 1).
2. Green Line - 3312(Concentration 1: 1).
3. Green Line - 6011(Concentration 1: 1).
4. Green Line - 6814 (Concentration 1: 1).

B. Bacteria tested:

1. E.coli - Representing a group of coliforms.
2. Feces Origin Streptococcus - Representing a group of feces streptococcus.
3. Staphylococcus Aureus.
4. Salmonella.
5. Listeria Mono.

C. Experimental structure:

Sowing is carried out on a plate of each substance with each bacterium in 3 different plates, after which a count is performed and a percentage result is obtained for the efficacy of the disinfectant against that bacterium.

D. Experimental Results:

Green Line - 6814	Green Line - 6011	Green Line - 3312	Green Line - 777	שם החיידק / שם החומר
73.3%	100%	100%	72%	E.coli
73.6%	100%	100%	72.5%	
74%	100%	100%	72.7%	
100%	100%	100%	100%	Feces Origin Streptococcus
100%	100%	100%	100%	
100%	100%	100%	100%	
100%	100%	100%	100%	Staphylococcus Aureus
100%	100%	100%	100%	
100%	100%	100%	100%	
72.2%	100%	100%	70.5%	Salmonella
72.8%	100%	100%	70.1%	
72.9%	100%	100%	70.8%	
100%	100%	100%	100%	Listeria Mono
100%	100%	100%	100%	
100%	100%	100%	100%	
353097	353083	353082	353112	Certificate Number

E. Level of Infection:

Green Line - 6814	Green Line - 6011	Green Line - 3312	Green Line - 777	שם החיידק / שם החומר
4.2×10^5	4.2×10^5	4.2×10^5	4.2×10^5	E.coli
2.9×10^5	2.9×10^5	2.9×10^5	2.9×10^5	Feces Origin Streptococcus
3.7×10^5	3.7×10^5	3.7×10^5	3.7×10^5	Staphylococcus Aureus
3.3×10^5	3.3×10^5	3.3×10^5	3.3×10^5	Salmonella
1.6×10^5	1.6×10^5	1.6×10^5	1.6×10^5	Listeria Mono

F. Conclusions:

1. Green Line - 777:

According to the results of the experiment it is possible to observe that the above material is 100% effective in bacteria:

Streptococcus, Staphylococcus aureus, Listeria.

But only in 72.4% of the cases versus E. coli and 70.47% of the cases against salmonella.

2. Green Line - 3312:

According to the results of the experiment, it is possible to observe that the above material is 100% effective in the case of all

The bacteria in the experiment.

3. Green Line - 6011:

According to the results of the experiment, it is possible to observe that the above material is 100% effective in the case of all

The bacteria in the experiment.

4. Green Line - 6814:

According to the results of the experiment it is possible to observe that the above material is 100% effective in bacteria:

Streptococcus, Staphylococcus aureus, Listeria.

But only in 73.63% of the cases versus E. coli and 72.63% of the cases against salmonella.

*All the tests were performed at the Bactochem Laboratory, which is accredited, recognized by the Ministry of Health.

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