

12.04.2021

Report No.: 13159.21

Page 1 of 2

Antimicrobial Efficiency of Silver Water

Customer	BarOz Technologies – SilWater 6, Schprintzak st., KFAR-SABA, Israel <u>Attn: Oren Bar-Oz</u>
Telephone & Email	053-3394345; dblasting.israel@gmail.com
Date sample tested	04.04.2021
Aminolab No.	019318.21-M
Sample Description	Silver water

Test Method:

The study was performed according to the sponsor's protocol.

Test media and solutions:

Tryptic Soy Agar (TSA)

m-Enterococcus Agar (for *Enterococcus faecalis*)

m-PA Agar (for *Pseudomonas aeruginosa*)

Buffered Sodium Chloride-Peptone solution pH 7.0

Test microorganisms:

Enterococcus faecalis (ATCC 29212)

Pseudomonas aeruginosa (ATCC 9027)

Test procedure:

Three (3) Silver water portions of 100ml each were inoculated with bacterial suspension (each test microorganism separately) to obtain about 10^4 CFU/ml.

Three (3) portions of Buffered Sodium Chloride-Peptone solution pH 7.0 were inoculated the same manner and served as Positive Control.

The inoculated samples were examined for the presence of test microorganisms following 5, 10 and 60 minutes storage at room temperature.

Test was performed by Membrane Filtration of sample portions. Membranes were placed onto appropriate test medium and incubated at 30-35°C for 48 hours.

The initial inoculum size was determined by Pour Plate method on TSA in duplicates. The plates were incubated at 30-35°C for 48 hours.

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Results:

Test microorganism : <i>Enterococcus faecalis</i> (ATCC 29212)			
Positive Control samples			
Plate ID	CFU/100 ml	Log	
5 min	3.00×10 ⁵	5.48	
30 min	3.30×10 ⁵	5.52	
60 min	4.70×10 ⁵	5.67	
Treated samples results and Log reduction calculation			
Plate ID	CFU/100 ml	Log	Log reduction
5 min	>2.0×10 ⁴	4.30	<1.18
30 min	>2.0×10 ⁴	4.30	<1.22
60 min	8.40×10 ³	3.92	1.75

Test microorganism : <i>Pseudomonas aeruginosa</i> (ATCC 9027)			
Positive Control samples			
Plate ID	CFU/100 ml	Log	
5 min	2.20×10 ⁵	5.34	
30 min	2.70×10 ⁵	5.43	
60 min	3.20×10 ⁵	5.51	
Treated samples results and Log reduction calculation			
Plate ID	CFU/100 ml	Log	Log reduction
5 min	<1	0	5.34
30 min	<1	0	5.43
60 min	<1	0	5.51

Examined by Naira Gortsunian, Ph.D: 

Confirmed by Mila Pechersky, Lab.Manager Deputy: 

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* End of certificate of analysis *

