

ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 243611/20/JS HB

A) IDENTIFICATION OF THE SAMPLE	
Name of the product	Non alcoholic disinfectant/Dezinfekcijas līdzeklis
Active substance	Alkyl (C12-16) dimethylbenzylammonium chloride, CAS: 68424-85-1 0,4% (0,4g/100g)
B) TEST METHOD AND ITS VALIDATION	
Method	PN-EN 13697:2015 Chemical disinfectants and antiseptics – Quantitative non-porous Surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements without mechanical action (phase 2, step 2)
Neutralizer	Polisorbate 80- 30 g/l, saponine- 3 g/l, cysteine- 1g/l, histidine- 1g/l, sodium thiosulfate 7,5g/l
C) EXPERIMENTAL CONDITIONS	
Product test concentrations (%V/V)	0,1%, 50%, 100%
Test temperature	20°C+/-1°C
Contact time	10 minutes bacteria and fungi
Interfering substance	Clean conditions : 0,3g/l bovine albumin
Product diluent	Sterile hard water
Temperature of incubation	36±1°C bacteria 30±1°C fungi
Identification of the bacterial and fungal strains used:	<i>Pseudomonas aeruginosa</i> ATCC 15442 <i>Escherichia coli</i> ATCC 10536 <i>Staphylococcus aureus</i> ATCC 6538 <i>Enterococcus hirae</i> ATCC 10541 <i>Aspergillus brasiliensis</i> ATCC 16404 <i>Candida albicans</i> ATCC 10231

Date: 28.06.2020

Authorized by: Agnieszka Erber, Cosmetics Microbiology Laboratory Manager

Approved by: Hanna Wachowska, Laboratory Director (*Approved with qualified electronic signature*)

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TABLE 1. RESULTS OF THE TEST

 CONTACT TIME: 10 minutes bacteria and fungi
 CLEAN CONDITIONS: 0,3g/l bovine albumin

TEST ORGANISM	BACTERIAL/FUNGAL TEST SUSPENSION : N						VALIDATION NT					VALIDATION NC					
	DILUTION	VC1	VC2	AVERAGE	N		DILUTION	VC1	VC2	AVERAGE	NT		DILUTION	VC1	VC2	AVERAGE	NC
Pseudomonas aeruginosa ATCC 15442	1,00E-06	257	264	261	6,81		1E-04	93	97	95	6,98		1E-04	85	84	84,5	6,93
	1,00E-07	27	26														
Escherichia coli ATCC 10536	1,00E-06	220	227	224	6,75		1E-04	84	88	86	6,93		1E-04	86	90	88	6,94
	1,00E-07	22	23														
Staphylococcus aureus ATCC 6538	1,00E-06	187	190	188	6,67		1E-04	80	87	83,5	6,92		1E-04	77	76	76,5	6,88
	1,00E-07	19	18														
Enterococcus hirae ATCC 10541	1,00E-06	200	207	202	6,70		1E-04	100	105	102,5	7,01		1E-04	80	83	81,5	6,91
	1,00E-07	18	19														
Aspergillus brasiliensis ATCC 16404	1,00E-05	150	154	157	5,59		1E-03	96	90	93	5,97		1E-03	66	64	65	5,81
	1,00E-06	21	20														
Candida albicans ATCC10231	1,00E-05	245	255	250	5,80		1E-03	82	84	83	5,92		1E-03	74	73	73,5	5,87
	1,00E-06	25	26														

TEST ORGANISM	WATER CONTROL Nc					
	DILUTION	VC1	VC2	AVERAGE	Nc	Nts
Pseudomonas aeruginosa ATCC 15442	1E-04	126	128	127	7,10	>100
Escherichia coli ATCC 10536	1E-04	110	105	108	7,03	>100
Staphylococcus aureus ATCC 6538	1E-04	97	105	101	7,00	>100
Enterococcus hirae ATCC 10541	1E-04	124	133	129	7,11	>100
Aspergillus brasiliensis ATCC 16404	1E-03	95	97	96	5,98	>100
Candida albicans ATCC10231	1E-03	105	109	107	6,03	>100

CRITERIA:
Bacteria $6,57 \leq N \leq 7,10$ **Nc $\geq 6,27$ log**
Fungi $5,57 \leq N \leq 6,10$ **Nc $\geq 5,27$ log**
NC > 0,5 Nc
NT > 0,5 Nc

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TEST ORGANISM	TEST PROCEDURE FOR CONCENTRATIONS % (V/V)																				
	0.1%							50%							100.0%						
	DILUTION	VC1	VC2	AVERAGE	Nd	R=Nc-Nd	Nts	DILUTION	VC1	VC2	AVERAGE	Nd	R=Nc-Nd	Nts	DILUTION	VC1	VC2	AVERAGE	Nd	R=Nc-Nd	Nts
Pseudomonas aeruginosa ATCC 15442	1,00E-01	>330	>330	>3300	>3,52	<3,58	>100	1,00E-01	0	0	<140	<2,15	>4,95	0	1,00E-01	0	0	<140	<2,15	>4,95	0
Escherichia coli ATCC 10536	1,00E-01	>330	>330	>3300	>3,52	<3,51	>100	1,00E-01	5	2	<140	<2,15	>4,88	0	1,00E-01	0	0	<140	<2,15	>4,88	0
Staphylococcus aureus ATCC 6538	1,00E-01	>330	>330	>3300	>3,52	<3,48	>100	1,00E-01	0	0	<140	<2,15	>4,85	0	1,00E-01	0	0	<140	<2,15	>4,85	0
Enterococcus hirae ATCC 10541	1,00E-01	>330	>330	>3300	>3,52	<3,59	>100	1,00E-01	0	0	<140	<2,15	>4,96	0	1,00E-01	0	0	<140	<2,15	>4,96	0
Aspergillus brasiliensis ATCC 16404	1,00E-01	>165	>165	>1650	>3,22	<2,76	>100	1,00E-01	1	4	<140	<2,15	>3,83	0	1,00E-01	0	0	<140	<2,15	>3,83	0
Candida albicans ATCC10231	1,00E-01	>330	>330	>3300	>3,52	<2,51	>100	1,00E-01	0	0	<140	<2,15	>3,88	0	1,00E-01	0	0	<140	<2,15	>3,88	0

Criteria:
Bactericidal activity – $R \geq 4 \log$
Fungicidal activity – $R \geq 3 \log$

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