



ŁAJSKI:
05-119 Legionowo, ul. Kościelna 2a
Southern branch
40-144 Katowice, ul. Józefowska 5
www.jars.pl

Analitycal laboratories
microbiology, physicochemistry, sensory



PN-EN ISO 9001:2008
Nr 94/S/2009

TEST REPORT, No 936/10/2011/M/P/1

Customer:	Vetmark Gruz A., ul. Listopadowa 19b, 05-110 Jabłonna				
Protocol-order No.	936/10/2011	Date of sample	25-10-2011	Time of sample	09:30
Sample collector:	Kucharska Monika				
Type of test:	microbiological				
Test subject:	household chemicals - sample assessment				
Samples collected by:	The Customer				
Transport of samples:	Samples delivered by the Customer				

Name of product:	aqueous solution of calcium hypochlorite - "Sagewash Sanitizer"				
1. Producer:	Sage Sanitizing Systems				
2. Packaging method:	no available				
3. Packaging date:	no data				
4. Expiry date:	no available				
5. Storage conditions:	no data				
6. Lot number:	no data				
7. Place of sample collection:	-				
Sample number:	4113/10	Sample net weight/volume:	Sample evaluation: no objections		
Date of test beginning:	26-10-2011	Date of test closure:	05-11-2011		
No. Aut.	Analyzed parameter	Test method	Requirements unit	Results unit	Uncertainty(**)
LE	The efficacy of the disinfectant on the surfaces of porous	PN-EN 13697:2002+Ap1:2003	-	accordance with Annex	
M3					

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Annex to the test report No 936/10/2011/M/P/1

Customer:	Vetmark Gruza A.		
Protocol – order No:	936/10/2011	Date of sample: 25-10-2011	Time of sample: 09:30
Sample collector:	Kucharska Monika		
Name of product:	Sample number:		
aqueous solution of calcium hypochlorite	4113/10		

ADDITIONAL INFORMATION:

Test metod according to: PN-EN 13697:2002+Ap1:2003

Test conditions: clean

Aggravating substance: bovine albumin 0.3 g / l

Diluent: sterile hard water

Neutralizer: physiological salt solution containing 3.0 g peptone / l lecithin, 5 g / l sodium thiosulfate, 30.0 g / l Tween 80

Contact time: 15 minutes

Test temperature: 20 ± 1 °C

Culture media: TSA, MEA

Strains of microorganisms used:

- Pseudomonas aeruginosa ATCC 9027
- Staphylococcus aureus ATCC 6538
- Enterococcus hirae ATCC 10541
- Candida albicans ATCC 10231
- Aspergillus niger ATCC 16404

Working concentration of the product: 100%, 80%, 50%

Approved: :	KIEROWNIK Laboratorium Mikrobiologicznego mgr Anna Skotnicka	Authorized by:	
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Organisms test	The suspension of bacteria or fungi designed for R: N	Validation study		Control with water Nc	The test procedure for the concentration % (v/v)		
		NT	NC		100 %	80%	50%
Enerococcus hirae	10 ⁻⁶ : 232; 227 10 ⁻⁷ : 21; 23 N: 7,06	10 ⁻³ : 245; 241 10 ⁻⁴ : 27; 23 10 ⁻⁵ : 2;3 NT: 6,39	10 ⁻³ : 271; 282 10 ⁻⁴ : 27; 30 10 ⁻⁵ : 2;1 NC: 6,44	10 ⁻³ : 186; 175 10 ⁻⁴ : 19;12 10 ⁻⁵ : 2;3 10 ⁻⁶ : 0;0 Nc: 6,23 Nts: >300	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : 273; 280 Nd: 5,44 Nts: >300 ME: 0,82	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : 287; 285 Nd: 5,46 Nts: >300 ME: 0,80	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : >300; >300 Nd: - Nts: >300 ME: -
Staphylococcus aureus	10 ⁻⁶ : >300; >300 10 ⁻⁷ : 54; 47 N: 7,38	10 ⁻³ : >300; >300 10 ⁻⁴ : 179; 183 10 ⁻⁵ : 23; 19 NT: 7,26	10 ⁻³ : >300; >300 10 ⁻⁴ : 166; 171 10 ⁻⁵ : 18; 5 NC: 7,23	10 ⁻³ : >300; >300 10 ⁻⁴ : 87; 85 10 ⁻⁵ : 7; 5 10 ⁻⁶ : 0; 0 Nc: 6,93 Nts: 172	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : 231; 226 Nd: 5,36 Nts: >300 ME: 1,57	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : >300; >300 Nd: - Nts: >300 ME: -	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : >300; >300 Nd: - Nts: >300 ME: -
Escherichia coli	10 ⁻⁶ : >300; >300 10 ⁻⁷ : 40; 41 N: 7,31	10 ⁻³ : >300; >300 10 ⁻⁴ : 159; 162 10 ⁻⁵ : 12; 14 NT: 7,20	10 ⁻³ : >300; >300 10 ⁻⁴ : 204; 209 10 ⁻⁵ : 21; 23 NC: 7,31	10 ⁻³ : >300; >300 10 ⁻⁴ : 76; 81 10 ⁻⁵ : 8; 10 10 ⁻⁶ : 0;0 Nc: 6,89 Nts: 157	10 ⁻⁰ : 56; 52 10 ⁻¹ : 10;6 10 ⁻² : 0;0 Nd: 2,73 Nts: 108 ME: 4,16	10 ⁻⁰ : 98; 118 10 ⁻¹ : 11; 12 10 ⁻² : 3; 1 Nd: 3,03 Nts: 216 ME: 3,86	10 ⁻⁰ : 123; 127 10 ⁻¹ : 17; 15 10 ⁻² : 0;0 Nd: 3,10 Nts: 250 ME: 3,79
Pseudomonas aeruginosa	10 ⁻⁶ : >300; >300 10 ⁻⁷ : 39;40 N: 7,30	10 ⁻³ : >300; >300 10 ⁻⁴ : 171; 179 10 ⁻⁵ : 15; 14 NT: 7,24	10 ⁻³ : >300; >300 10 ⁻⁴ : 150; 147 10 ⁻⁵ : 13; 11 NC: 7,17	10 ⁻³ : >300; >300 10 ⁻⁴ : 195; 191 10 ⁻⁵ : 20;17 10 ⁻⁶ : 0;0 Nc:7,29 Nts: >300	10 ⁻⁰ : >300; >300 10 ⁻¹ : 109; 98 10 ⁻² : 12; 9 Nd: 4,01 Nts: 207 ME: 3,28	10 ⁻⁰ : >300; >300 10 ⁻¹ : 275; 260 10 ⁻² : 24; 30 Nd: 4,43 Nts:>300 ME: 2,86	10 ⁻⁰ : >300; >300 10 ⁻¹ : >300; >300 10 ⁻² : 70;70 Nd: 4,85 Nts: 140 ME: 2,44

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www.jars.pl			10⁻⁵: 199; 165 10⁻⁶: 15; 25 N: 5,96	10⁻³: 76; 78 10⁻⁴: 9; 7 10⁻⁵: 0; 1 NT: 5,88	10⁻³: 65; 70 10⁻⁴: 7; 5 10⁻⁵: 0;0 NC: 5,83	10⁻³: 83; 87 10⁻⁴: 9;9 10⁻⁵: 1;0 10⁻⁶: 0;0 Nc: 5,93 Nts: 170	10⁻⁰: 10; 9 10⁻¹: 1;2 10⁻²: 0;0 Nd: 1,98 Nts: 19 ME: 3,95	10⁻⁰: 5;7 10⁻¹: 0;0 10⁻²: 0;0 Nd: 1,78 Nts:12 ME: 4,15	10⁻⁰: >300; >300 10⁻¹: 35; 39 10⁻²: 6;0 Nd: 3,57 Nts: 74 ME: 2,36
Candida albicans	10⁻⁵: 251; 248 10⁻⁶: 26;30 N: 6,09	10⁻³: 110; 128 10⁻⁴: 11; 21 10⁻⁵: 1;3 NT: 6,08	10⁻³: 64; 50 10⁻⁴: 3;5 10⁻⁵: 0;0 NC: 5,76	10⁻³: 110; 139 10⁻⁴: 16;18 10⁻⁵: 1,2 10⁻⁶: 0,0 Nc: 6,09 Nts: 249	10⁻⁰: >300; >300 10⁻¹: >300; >300 10⁻²: 188; 193 Nd: 6,28 Nts: >300 ME: -	10⁻⁰: >300; >300 10⁻¹: >300; >300 10⁻²: >300; >300 Nd: - Nts: >300 ME: -	10⁻⁰: >300; >300 10⁻¹: >300; >300 10⁻²: >300; >300 Nd: - Nts: >300 ME: -		
Aspergillus niger									

d- dilution factor, which was taken for counting
 Nc - log10 cfu numbers on the surface to study the control of water
 Nd - log10 cfu is the number of the surface available for research in the study of the disinfectant
 Nts - number of colony forming units, which remained on the surface to study
 ME - cidal activity against microorganisms (ME = Nc-Nd)
 NC - log10 - the number of cfu on the area designed to test the control neutralization
 NT - log10 cfu numbers on the surface intended for research in the study of neutralizing
 N - log10 number of cfu in 0.05 ml of suspension intended for research

The product shows effectiveness in the concentration range of 100% for applied strains of Escherichia coli and Candida albicans.

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