



TEST REPORT OO2058

SMT LABS
4 Anjou Street
Bayswater
Bloemfontein
9301

Report Date: 08/04/2020

EN 1276, BACTERICIDAL ACTIVITY

(SMT-TM-17: Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics)

Client details:

Client: Scientific Sanitation Solutions

Identification of sample: OO2058

Client reference / Order number: N/A

Address: 323 Lynnwood Road, Menlo Park, Pretoria

E-mail address: victor@scisan.co.za

Telephone number: 061 471 6109

Product details:

Name of the product: SANI-99

Batch number and Expiry date: Not provided

Manufacturer: Scientific Sanitation Solutions

Supplier: Scientific Sanitation Solutions

Storage conditions (temp. and other): Store in a cool and dry place. Protect from sources of heat.

Appearance of the product: White salt, free flowing and mostly odourless in 1 L of water at 6g dosage.

Active substance(s) and their concentration(s): xxx

Product dilutions recommended by the manufacturer for use: 6g/1L

Period of testing:

Date of delivery of the product: 01/04/2020

Date of tests: 03/04/2020

NOTES:

This test report applies only to the samples tested

Cfu: Colony Forming Units

ND: Not Detected

NA: Not applicable

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Experimental conditions:

Product diluent: Hard Water

Concentrations of the product tested: 3g/L, 6g/L, 10g/L

Contact time: 5 min

Obligatory conditions:

Test temperature: 20 °C

Interfering substance: Clean and Dirty Conditions

Incubation temperature: 37°C

Test organisms: *Staphylococcus aureus* ATCC 6538

Pseudomonas aeruginosa ATCC 15442

Enterococcus hirae ATCC 10541

Escherichia coli ATCC 10536

Additional conditions:

Test organisms:

Escherichia coli 0157 ATCC 43888

Salmonella typhimurium ATCC 14028

Listeria monocytogenes ATCC 7644

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**TEST REPORT
OO2058**

Results

Test organism: *Escherichia coli*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.28 x 10 ⁵	5.11	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.28 x 10 ⁵	5.11	ND	-	> 5 log
1%	5 min	Clean Condition	1.28 x 10 ⁵	5.11	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.74 x 10 ⁵	5.24	ND	-	> 5 log
0.6%	5 min	Dirty Condition	1.74 x 10 ⁵	5.24	ND	-	> 5 log
1%	5 min	Dirty Condition	1.74 x 10 ⁵	5.24	ND	-	> 5 log

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**TEST REPORT
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Results:

Test organism: *Staphylococcus aureus*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.17 x 10 ⁵	5.07	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.17 x 10 ⁵	5.07	ND	-	> 5 log
1%	5 min	Clean Condition	1.17 x 10 ⁵	5.07	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.39 x 10 ⁵	5.14	4.30 x 10 ⁴	4.63	< 5 log
0.6%	5 min	Dirty Condition	1.39 x 10 ⁵	5.14	ND	-	> 5 log
1%	5 min	Dirty Condition	1.39 x 10 ⁵	5.14	ND	-	> 5 log

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Results:

Test organism: *Enterococcus hirae*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.59 x 10 ⁵	5.20	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.59 x 10 ⁵	5.20	ND	-	> 5 log
1%	5 min	Clean Condition	1.59 x 10 ⁵	5.20	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.88 x 10 ⁵	5.27	ND	-	> 5 log
0.6%	5 min	Dirty Condition	1.88 x 10 ⁵	5.27	ND	-	> 5 log
1%	5 min	Dirty Condition	1.88 x 10 ⁵	5.27	ND	-	> 5 log

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Results:

Test organism: *Pseudomonas aeruginosa*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	5.93 x 10 ⁵	5.77	ND	-	> 5 log
0.6%	5 min	Clean Condition	5.93 x 10 ⁵	5.77	ND	-	> 5 log
1%	5 min	Clean Condition	5.93 x 10 ⁵	5.77	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	7.9 x 10 ⁵	5.90	ND	-	> 5 log
0.6%	5 min	Dirty Condition	7.9 x 10 ⁵	5.90	ND	-	> 5 log
1%	5 min	Dirty Condition	7.9 x 10 ⁵	5.90	ND	-	> 5 log

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Results:

Test organism: *Escherichia coli* 0157

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.16 x 10 ⁵	5.06	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.16 x 10 ⁵	5.06	ND	-	> 5 log
1%	5 min	Clean Condition	1.16 x 10 ⁵	5.06	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.70 x 10 ⁵	5.23	ND	-	> 5 log
0.6%	5 min	Dirty Condition	1.70 x 10 ⁵	5.23	ND	-	> 5 log
1%	5 min	Dirty Condition	1.70 x 10 ⁵	5.23	ND	-	> 5 log

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**TEST REPORT
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Results:

Test organism: *Salmonella typhimurium*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.33 x 10 ⁵	5.12	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.33 x 10 ⁵	5.12	ND	-	> 5 log
1%	5 min	Clean Condition	1.33 x 10 ⁵	5.12	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.81 x 10 ⁵	5.26	1.10 x 10 ²	2.04	< 5 log
0.6%	5 min	Dirty Condition	1.81 x 10 ⁵	5.26	ND	-	> 5 log
1%	5 min	Dirty Condition	1.81 x 10 ⁵	5.26	ND	-	> 5 log

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**TEST REPORT
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Results:

Test organism: *Listeria monocytogenes*

Test Product: OO2058

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Clean Condition	1.52 x 10 ⁵	5.18	ND	-	> 5 log
0.6%	5 min	Clean Condition	1.52 x 10 ⁵	5.18	ND	-	> 5 log
1%	5 min	Clean Condition	1.52 x 10 ⁵	5.18	ND	-	> 5 log

Dilution	Contact time	Interfering substance	Initial count of Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Log reduction
			CFU/ml	Log ₁₀	CFU/ml	Log ₁₀	
0.3%	5 min	Dirty Condition	1.69 x 10 ⁵	5.23	5.45 x 10 ⁴	4.74	< 5 log
0.6%	5 min	Dirty Condition	1.69 x 10 ⁵	5.23	ND	-	> 5 log
1%	5 min	Dirty Condition	1.69 x 10 ⁵	5.23	ND	-	> 5 log

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Special remarks regarding the results:

All controls and validations were within the basic limits. No precipitate formed during the test procedure (test mixtures were homogeneous).

Conclusion:

The product did achieve a 5-log reduction towards all obligatory and additional organisms tested under clean and dirty conditions when used at the dilution recommended by the manufacturer (6g/L) for a contact time of 5 minutes. The product does therefore pass the requirements of the EN1276 standard when used at the recommended dilution (6g/L) under clean and dirty conditions for a contact time of 5 minutes.

SMT LABS
Technical Signatory (Quality Manager)
C.W. Swart

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