

REPORT

Report No.: 346834/1

Sample lab ID: 0001882445

Customer name/address:	Kemper S.r.l. 25020 Dello (BS) Via Ponterosso, ncm
Project:	Microbiological analysis (2016/E/01444)
Description of sample:	BIOSAN STERIDET
Sample ID:	1649/12.01.2016
Producer:	
Sample type:	Household chemical products
Sampling by:	Ecofarm UCL Kft.
Sampling date / Sampling place:	12.01.2016. / Olaszország
Packaging / Quantity:	plastic box / 1000 g
Time of shipment:	09.02.2016. 15:00
Beginning of analysis / end:	13.03.2016. - 06.04.2016.
Comments:	

Microbiological parameters

Test concentration:	1,0%
Test method:	MSZ EN 1656:2010 standard Neutralization method
Test circumstances	
Test microbes:	<i>Pseudomonas aeruginosa</i> ATCC 15442 <i>Staphylococcus aureus</i> ATCC 6538 <i>Proteus hauserii</i> ATCC 13315 <i>Enterococcus hirae</i> ATCC 10541
Test temperature:	10 °C
Contact time:	5 minutes, 15 minutes, 30 minutes
Interfering substance:	low-level soiling: 3,0 g/l bovine albumin

Validation of method and dilution-neutralization

Test microbe	CFU/ml				
	Bacterial test suspension (N)	Bacterial suspension (N _v)	Experimental conditions (A)	Toxicity control (B)	Dilution neutralization control (C)
<i>Pseudomonas aeruginosa</i>	2.0 · 10 ⁸	5.3 · 10 ²	4.1 · 10 ²	4.4 · 10 ²	5.1 · 10 ²
<i>Staphylococcus aureus</i>	4.4 · 10 ⁸	9.8 · 10 ²	8.2 · 10 ²	8.8 · 10 ²	9.2 · 10 ²
<i>Proteus hauserii</i>	1.6 · 10 ⁸	4.2 · 10 ³	3.7 · 10 ²	3.4 · 10 ²	3.6 · 10 ²
<i>Enterococcus hirae</i>	1.8 · 10 ⁸	4.6 · 10 ²	3.5 · 10 ²	3.9 · 10 ²	4.4 · 10 ²
$1,5 \cdot 10^8 < N < 5,0 \cdot 10^8$, $3,0 \cdot 10^2 < N_v < 1,6 \cdot 10^3$ (bacteria) $A \geq 0,5 \cdot N_v$ $B \geq 0,5 \cdot N_v$ $C \geq 0,5 \cdot N_v$					
The test method is valid.					



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TEST RESULTS:**Surviving microbial count (N_a) (cfu/ml)**

Test microbe	5 minutes	15 minutes	30 minutes
<i>Pseudomonas aeruginosa</i>	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$
<i>Staphylococcus aureus</i>	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$
<i>Proteus hauserii</i>	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$
<i>Enterococcus hirae</i>	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$	$<1.4 \cdot 10^2$

Reduction of viability at test concentration (R)

Test microbe	5 minutes	15 minutes	30 minutes
<i>Pseudomonas aeruginosa</i>	>5	>5	>5
<i>Staphylococcus aureus</i>	>5	>5	>5
<i>Proteus hauserii</i>	>5	>5	>5
<i>Enterococcus hirae</i>	>5	>5	>5

$$N_0 = N/10$$

$$R = (\lg R = \lg N_0 - \lg N_a)$$

Terms of disinfecting effect: $R \geq 5$ (bacteria)

SUMMARY:

According to MSZ EN 1656:2010 standard the **BIOSAN STERIDET disinfectant at 1,0%** concentration, under low-level soiling, at 10 °C temperature possesses bactericidal activity within 5 minutes to the tested microorganisms.

Judit dr. Reichardt Gasparikné
 Deputy Head of Laboratory

This test report was generated from a validated system and is valid without a signature.

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