

REPORT

Report No.: 346838/1

Sample lab ID: 0001585153

Customer name/address:	Kemper S.r.l. 25020 Dello (BS) Via Ponterosso, ncm
Project:	Microbiological analysis (2016/E/03951)
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:	22.04.2016. 08:00
Beginning of analysis / end:	26.04.2016. - 29.04.2016.
Comments:	

Microbiological parameters

Test concentration:	3,0%
Test method:	MSZ EN 1656:2010 standard Neutralization method
Test circumstances	
Test microbes:	<i>Staphylococcus aureus</i> ATCC 6538 <i>Enterococcus hirae</i> ATCC 10541
Test temperature:	10 °C
Contact time:	5 minutes, 15 minutes, 30 minutes
Interfering substance:	high-level soiling : 10,0 g/l bovine albumin solution plus 10 g/l yeast extract

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>Staphylococcus aureus</i>	4.6 · 10 ⁸	1.1 · 10 ³	9.1 · 10 ²	9.8 · 10 ²	9.3 · 10 ²
<i>Enterococcus hirae</i>	2.1 · 10 ⁸	4.8 · 10 ²	3.6 · 10 ²	4.4 · 10 ²	4.1 · 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>Staphylococcus aureus</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>Staphylococcus aureus</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 3,0%** concentration, under high-level soiling, at 10 °C temperature possesses bactericidal activity within 5 minutes to the tested microorganisms.

Judit dr. Reichardt Gasparikné
 Deputy Head of Laboratory

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