eurofins | BioPharma Product Testing

SPONSOR	TOVER SRL
	VIA ROSA LUXEMBURG, 2/A
	10093, COLLEGNO (TO)
	ITALY

TEST METHOD	EN 1276:2019 / UNI EN 1276:2019 - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)

TEST ITEM

PRODUCT NAME (*)	*SANIFLOOR / SANIPARQUET*		
MATRIX OF THE PRODUCT (*)	Biocide and Antimicrobials - Detergent/Household product		
BATCH N. (*)	07.20.086.V	CODE	Not provided
MANUFACTURING DATE (*)	13-Jul-2020	EXPIRY DATE (*)	13-Jul-2022
MANUFACTURER (*)	TOVER SRL		
ACTIVE INGREDIENT	Not provided		
MATERIAL ITEM ALIQUOT	LV-MAT-FOV7-20-211-0B76:a		
PARCEL REGISTRATION N.	IP-LV-2020197-AFG	RECEIVING DATE	15-Jul-2020
STORAGE CONDITIONS (*)	Room temperature (20°C ± 5°C)		

(*) INFORMATION PROVIDED BY THE SPONSOR

ANALYSIS STARTING DATE	27-Aug-2020	**ANALYSIS ENDING DATE**	31-Aug-2020

EXPERIMENTAL CONDITIONS

TEST TEMPERATURE	20°C ± 1°C
CONCENTRATIONS	2.4% - 1.2% - 0.5% The item dilutions have been prepared 1.25 times higher than the final tested concentrations, using hard water. The dilutions were clear and homogeneous. Test item dilution was stable throughout test (no precipitation in the test mixture).
PRODUCT APPEARANCE	Green transparent liquid
CONTACT TIME	5 minutes
INACTIVATION OF THE PRODUCT	Dilution- neutralization method - CEN neutralizer: Lecithin 3 g Polysorbate 80 30 ml Sodium Thiosulfate 5 g L-histidine 1 g Saponin 30 g Tryptone-treated water (q. s.) to 1000 ml

eurofins | BioPharma Product Testing

INTERFERING SUBSTANCE	Bovine serum albumin (BSA) with a final concentration of 3 g/L (0.3% - simulating dirty conditions).
INCUBATION TEMPERATURE	37°C ±1°C
TEST MICROORGANISMS	*Staphylococcus aureus* ATCC 6538 *Pseudomonas aeruginosa* ATCC 15442 *Escherichia coli* ATCC 10536 *Enterococcus hirae* ATCC 10541

RESULTS

Log Reductions at concentrations and contact time

	1 minute		
	2.4%	**1.2%**	**0.5%**
S. aureus ATCC 6538	>5.40	>5.40	3.24
P. aeruginosa ATCC 15442	>5.46	>5.46	>5.46
E. coli ATCC 10536	>5.49	>5.49	>5.49
E.hirae ATCC 10541	>5.36	>5.36	>5.36

See Addendum N.1

= 99,999%

VALIDITY CRITERIA

N: is between $1.5x10^8$ and $5x10^8$ (8.17 Log and 8.70 Log)
N_V: is between $3.0×10^2$ and $1.6×10^3$
A, B, C:is equal to, or 0.05 times higher than N_V

where:
N = count in cfu/ml of the bacterial suspension
N_v = count in cfu/ml of the bacterial suspension in the preliminary assay
A = count in cfu/ml of the solution to verify the experimental conditions
B = count in cfu/ml neutraliser toxicity control
C = count in cfu/ml neutraliser effectiveness

Control of weighted mean counts: the quotient is ≥5 and ≤15

The test item is considered bactericidal when a 5 decimal logarithm reduction is demonstrated under the test conditions for *general purpose disinfection*: contact time shall be in a range from 1 min to 60 min (from 1 min to 5 min at intervals of 1 min and from 5 min to 60 min at intervals of 5 min); test temperature shall be in a range from 4 °C to 60 °C, in clean or dirty conditions, when the test organisms are *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli*, *Enterococcus hirae* and *E. faecium* only for temperatures ≥ 40 °C). The recommended contact time for the use of the product is within the responsibility of the manufacturer.

CONCLUSIONS	**BACTERICIDAL** at the test concentration of 1.2% after 5 minutes of contact time, in the adopted test conditions, using bovine serum albumin at the final concentration of 3 g/L (0.3% - simulating dirty conditions).
ADDENDUM	N. 1: RAW DATA EXPERIMENTATION (*2 pages*)

This test report may not be reproduced in part unless expressly approved in writing by Eurofins Biolab S.r.l. The test results relate only to the tested items. Sampling, except specific indication on test report, is always intended to be made by the Sponsor. Information provided by the Sponsor are under Sponsor responsibility.

Eurofins Biolab Srl – via B.Buozzi 2, Vimodrone (Milano), Italy - P.IVA / VAT Number: 00762140960
Tel: +39-022507151 – Fax: +39-0225071599 – E-mail: InfoFarma@eurofins.com

Reviewed and electronically signed for Study Technical Supervisor Approval by
Giulia Sbarufatti, employee
for Eurofins Biolab Srl, on 18-Sep-2020 15:44:44 UTC+02:00

eurofins | biolab	**Prova quantitativa in sospensione per la valutazione dell'attività battericida dei disinfettanti chimici e antisettici usati in campo alimentare, industriale, domestico e istituzionale** ***(Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas)***	**1-P-QM-TEM-9081590**
	Norma (Standard): EN 1276:2019 / UNI EN 1276:2019 - phase2/step1	

Data inizio *(Started on)*: 27/08/20 — Data fine sperimentazione (Experimentation finished on): 31/08/2020

ID. studio *(ID. Study)*: STULV20AA4046-1 — ID. campione *(ID. sample)*: LV-MAT-FOV7-20-211-0B76:a

Microrganismi test ***(Test Microorganisms)***		**N**		**Nv**		**A**		**B**		**C**	
	Dil.	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*	ufc/piastra *(cfu/plate)*
Staphylococcus aureus ATCC6538	10^{-6}	>330	>330	78	80	68	59	70	61	66	70
	10^{-7}	33	38								
	Log	8,55	VALIDO (VALID)	7,9E+02		6,4E+01		6,6E+01		6,8E+01	
Pseudomonas aeruginosa ATCC15442	10^{-6}	>330	>330	65	49	52	44	40	46	51	50
	10^{-7}	41	40								
	Log	8,61	VALIDO (VALID)	5,7E+02		4,8E+01		4,3E+01		5,1E+01	
Escherichia coli K12 DSM 11250 (NCTC 10538)	10^{-6}	>330	>330	81	73	71	65	76	77	74	64
	10^{-7}	39	48								
	Log	8,64	VALIDO (VALID)	7,7E+02		6,8E+01		7,7E+01		6,9E+01	
Enterococcus hirae ATCC10541	10^{-6}	>330	>330	55	56	49	41	40	46	50	43
	10^{-7}	35	30								
	Log	8,51	VALIDO (VALID)	5,6E+02		4,5E+01		4,3E+01		4,7E+01	

N: conteggio sospensione batterica ufc/ml (N: count of the bacterial suspension cfu/ml)
Nv: conteggio sospensione batterica per il saggio preliminare ufc/ml (Nv: count of the bacterial suspension in the preliminary assay cfu/ml)
A: conteggio nella convalida delle condizioni sperimentali ufc/piastra (A: count in the experimental conditions verification solution cfu/plate)
B: conteggio nel controllo di tossicità del neutralizzante ufc/piastra (B: count in the neutraliser toxicity control cfu/plate)
C: conteggio nel controllo dell'efficacia del neutralizzante ufc/piastra (C: count in the neutraliser effectiveness control cfu/plate)

Data verifica approvatore (approver verification date): 15/09/2020

Sigla tecnico e data *(Technician signature and date)*: 16.09.20

Sigla approvatore *e data (Approver signature and date)*: 17092020

© This document is copyright of Eurofins Scientific Group

Analytical Report: AAJ95967, Eurofins Number: STULV20AA4046-1, Version: 1

eurofins | biolab	**Prova quantitativa in sospensione per la valutazione dell'attività battericida dei disinfettanti chimici e antisettici usati in campo alimentare, industriale, domestico e istituzionale** *(Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas)*	**1-P-QM-TEM-9081590**
	Norma (Standard): EN 1276:2019 / UNI EN 1276:2019 - phase2/step1	

Data inizio *(Started on)*: 27/08/20

Data fine sperimentazione (Experimentation finished on): 31/08/2020

ID. studio *(ID. Study)*: STULV20AA4046-1

ID. campione *(ID. sample)*: LV-MAT-FOV7-20-211-0B76:a

Microrganismi test *(Test Microorganisms)*	**CONCENTRAZIONI E TEMPI DI CONTATTO ufc/piastra** *(CONCENTRATIONS AND CONTACT TIMES cfu/plate)*						
	Dil.	**2,4%**	**5 MIN**	**1,2%**	**5 MIN**	**0,5%**	**5 MIN**
Staphylococcus aureus ATCC6538	10^0	0	0	0	0	>330	>330
	10^{-1}	0	0	0	0	200	212
	10^{-2}	0	0	0	0	20	17
	Log	**Na** < 2.15		**Na** < 2.15		**Na**	4,31
	Log	**R** > 5,40		**R** > 5,40		**R**	3,24
Pseudomonas aeruginosa ATCC15442	10^0	0	0	0	0	0	0
	10^{-1}	0	0	0	0	0	0
	10^{-2}	0	0	0	0	0	0
	Log	**Na** < 2.15		**Na** < 2.15		**Na** < 2.15	
	Log	**R** > 5,46		**R** > 5,46		**R** > 5,46	
Escherichia coli K12 DSM 11250 (NCTC 10538)	10^0	0	0	0	0	8	7
	10^{-1}	0	0	0	0	0	0
	10^{-2}	0	0	0	0	0	0
	Log	**Na** < 2.15		**Na** < 2.15		**Na** < 2.15	
	Log	**R** > 5,49		**R** > 5,49		**R** > 5,49	
Enterococcus hirae ATCC10541	10^0	0	0	0	0	0	0
	10^{-1}	0	0	0	0	0	0
	10^{-2}	0	0	0	0	0	0
	Log	**Na** < 2.15		**Na** < 2.15		**Na** < 2.15	
	Log	**R** > 5,36		**R** > 5,36		**R** > 5,36	

Na: numero di ufc/ml nella miscela test *(Na: number of cfu/ml in the test mixture);*
R: riduzione della vitalità *(R: vitality reduction)*

Data verifica approvatore (approver verification date): 15/09/2020

Sigla tecnico e data *(Technician signature and date)*: 16.09.20

Sigla approvatore *e data (Approver signature and date)*: 17092020

© This document is copyright of Eurofins Scientific Group