

REPORT OF ANALYSIS No. 21431/21/CGDA

Client GREENEX INDUSTRIVEIEN 31 1337 SANDVIKA	Sample description (according to declaration of Client) Greenolyte 500 Batch/lot: 1911-01 Production date: 19-11-2020 Expiry date: 18-11-2021 Sample without any visible damages
Sample received: 2021-01-21	Order of 2021-01-15 The samples were delivered by Client
Analysis completed (the date of performance of the laboratory activity): 2021-02-23	
Report dated: 2021-02-23	

Test	Method	Unit	Result
* Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants ¹⁾	PN-EN 13704:2018-09		Product diluted to 50% and 80% shows sporicidal activity at 10 minutes, 20°C, in clean conditions (0,3g/L bovine albumin) at reference strain: Bacillus subtilis ATCC 6633.

¹⁾ The results of the analysis in attachment No 1 to the report of analysis.

THE END OF THE REPORT

Authorized by: Agnieszka Erber, Cosmetics Microbiology Laboratory Manager
 Approved by: Hanna Wachowska, Laboratory Director (*Approved with electronic signature*)

Laboratory: Tychy 43-100, Goździków 1

The results relate to the analysed samples only. Unless otherwise specified given expanded measurement uncertainty was estimated for the coverage factor k=2 at 95% confidence level. Sampling uncertainty has not been taken into consideration. Unless otherwise specified when conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019. This Report cannot be reproduced partially without a prior written consent of J.S. Hamilton Poland Sp. z o.o. Responsibility of J.S. Hamilton Poland Sp. z o.o. is restricted exclusively to the results and statements presented in original copy of the Report. The service confirmed by this Report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl

* Test method accredited; # Test performed by external provider

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Form PO-10/02a of 20.01.2020

J.S. HAMILTON POLAND Sp. z o.o.
TESTING LABORATORY

ul. Chwaszczyńska 180, 81-571 Gdynia, Poland, tel. +48 58 766 99 00



ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 21431/21/CGDA

A) IDENTIFICATION OF THE SAMPLE	
Name of the product	Greenolyte 500 Batch/lot: 1911-01 Production date: 19-11-2020 Expiry date: 18-11-2021
Active substance	HOCl, concentration : 500ppm
B) TEST METHOD AND ITS VALIDATION	
Method	PN-EN 13704:2018-09 Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)
Neutralizer	Polisorbate 80- 30 g/l, saponine- 3 g/l, cysteine- 1g/l, histidine- 1g/l, sodium thiosulfate 7,5g/l
C) EXPERIMENTAL CONDITIONS	
Product test concentrations (%V/V)	0,01%, 50%, 80%
Test temperature	20°C ± 1°C
Contact time	10 minutes
Interfering substance	Clean conditions: 0,3g/l bovine albumin
Product diluent	Sterile hard water
Temperature of incubation	30°C ± 1°C
Identification of the bacterial and fungal strains used:	<i>Bacillus subtilis</i> ATCC 6633

Date: 23.02.2021

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ENCLOSURE No. 1 TO REPORT OF ANALYSIS NO. 21431/21/CGDA
TABLE 1. TEST RESULTS

TEST CONDITIONS: 0,3 g/l BOVINE ALBUMIN - CLEAN CONDITIONS
 TEMPERATURE: 20°C+/-1st.C
 CONTACT TIME: 10 minutes
 PRODUCT TEST CONCENTRATION: 0,01%, 50%, 80%

TEST ORGANISM	VALIDATION VALIDATION SUSPENSION				VALIDATION A			VALIDATION B			VALIDATION C		
	VC1	VC2	Nv	Nvo	VC1	VC2	A	VC1	VC2	B	VC1	VC1	C
Bacillus subtilis ATCC 6633	91	94	925	93	97	85	91	77	72	75	63	61	62
criteria	$300 \leq Nv \leq 1600$		$30 \leq Nv0 \leq 160$		$A \geq 0,5 \cdot N_{v0}$			acceptable $B \geq 0,5 \cdot N_{v0}$			acceptable $C \geq 0,5 \cdot N_{v0}$		

TEST ORGANISM	TEST SUSPENSION							
	-4	-4	-5	-5	N	IgN	N ₀	IgN ₀
Bacillus subtilis ATCC 6633	>330	>330	21	25	2,1E+07	7,32	2,1E+06	6,32
criteria	$1,5 \cdot 10^6 \leq N \leq 5 \cdot 10^6$		$6,17 \leq \log N \leq 6,70$		$1,5 \cdot 10^5 \leq N_0 \leq 5 \cdot 10^5$		$5,17 \leq \log N_0 \leq 5,70$	

TEST ORGANISM	N	0,01%					50%					80%				
		VC1	VC2	Na	Ig Na	Ig R	VC1	VC2	Na	Ig Na	Ig R	VC1	VC2	Na	Ig Na	Ig R
Bacillus subtilis ATCC 6633	2,1E+07	>330	>330	>3300	>3,52	<2,80	0	0	<140	<2,15	>4,17	0	0	<140	<2,15	>4,17
criteria	$\lg R \geq 3$	unacceptable					acceptable					acceptable				

Date: 23.02.2021

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