ANTIMIKROP	ANTIMIKROP R&D AND BIOCIDAL ANALYSIS CENTER	NAC TESTING LABORATORY ISO/IEC 17025:2017 NAC-013-TL
	MICROBIOLOGICAL ANALYSIS RESULT	

REPORT REGISTRY NO	R-20-0228
REPORT DATE	01.10.2020
SAMPLE REGISTY NO	BI-20-0228
FULL NAME OF THE PRODUCT	SuperOx Hand Skin and Wound Area Disinfectant/Active Chlorine Generated from Sodium Chloride by Electrolysis
OWNER OF THE PRODUCT / LICENCE	ANOLİT HİJYEN VE KİMYA SAN. A.Ş.
ACTIVE INGREDIENT PERCENTAGE OF THE SAMPLE	HOCl (%0,02)
FORMULATION OF THE SAMPLE	-
TYPE OF SAMPLE PACKAGING MATERIAL	PLASTIC
ARRIVAL DATE OF THE SAMPLE	17.09.2020
OWNER OF THE SAMPLE	ANOLİT HİJYEN VE KİMYA SAN. A.Ş.
REASON OF THE SAMPLE ARRIVAL, SEAL STATUS AND QUANTITY	Biocidal Analysis-Unsealed-100 ml
PRODUCTION PLACE AND ADDRESS OF THE SAMPLE	ANOLİT HİJYEN VE KİMYA SAN. A.Ş. Çamlıca Mah. Anadolu Bulvarı Timko Sok. F Blok No:20/6 Yenimahalle/ANKARA
PRODUCTION AND EXPIRY DATE OF SAMPLE	07.2020-07.2022
SAMPLE LOT/SERIAL NUMBER	100EC0002
START - END DATE OF ANAYSIS	26.09.2020-30.09.2020
ANALYSIS METHOD	Virucidal Analysis
ANAYSIS RESULTS	Presented in Virucidal Test Result Form. as in Atch-1/ PR-13-FR-45-03

Date: 01.10.2020
Analyst
Murat ETİRİK

Date: 01.10.2020
Responsible Manager
Sorumlu Yönetici
Prof. Dr. Ahmet ERTEKİN

Date: 01.10.2020
Reporter
Gamze Dinçer Cangöz
Yerine
Kübra GÜRAL

ANTİMİKROP	**ANTIMIKROP R&D AND BIOCIDAL ANALYSIS CENTER** **MICROBIOLOGICAL ANALYSIS FINAL REPORT**	NAC TESTING LABORATORY ISO/IEC 17025:2017 NAC-013-TL

ATCH 1: RESULTS

ANALIYSIS TYPE AND METHOD	MICROORGANISM USED	RESULT	BACTERICIDAL EFFECT (% REDUCTION)	CONTACT TIME
BACTERICIDAL ANALYSIS	*P. aeruginosa*	-	-	-
	E. hirae	-	-	-
	S. aureus	-	-	-
	E. coli	-	-	-
	E. coli K12	-	-	-
	B. subtilis	-	-	-

	MICROORGANISM USED	RESULT	VIRUCIDAL EFFECT (% REDUCTION)	CONTACT TIME
VIRUCIDAL ANALYSIS	*Poliovirüs Tip 1 (LSc 2ab suşu)* *	-	-	-
	Adenovirüs Tip 5 (Adenoid 75 suşu) *	-	-	-
	M. Norovirus (S99 Berlin suşu) *	-	-	-
	COVID-19 (*SARS-CoV-2*) *(Clinical Isolate)*	7,33 LOG	>%99,99	90 Seconds

	MICROORGANISM USED	RESULT	FUNGUCIDAL EFFECT (% REDUCTION)	CONTACT TIME
FUNGICIDAL ANAYSIS	*C. albicans* *	-	-	-
	A. brasiliensis *	-	-	-

SUMMARY OF ANALYSIS METHOD	Analysis was made according to the conditions required by the TS EN 14476 + A1: 2019-09 standards. Accordingly, virucidal effect of the product named SuperOx Hand Skin and Wound Area Disinfectant / Active Chlorine Generated from Sodium Chloride by Electrolysis was analyzed under clean conditions and at room temperature for 90 seconds on the experimental organism COVID-19 (*SARS-CoV-2*) (clinical isolate) (GenBank: MT955161.1).

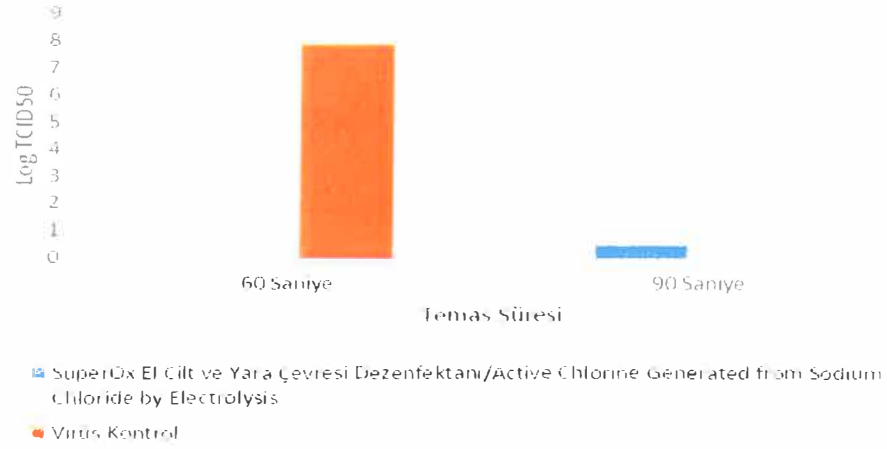
Experiments marked with (*) are within the scope of accreditation.

ANTİMİKROP ANTİMİKROBİYAL MAD. LAB. AR-GE MÜH. VE DAN. HİZ. KİMYA SAN. TİC. LTD. ŞTİ. Nasuh Akar Mah. Süleyman Hacıabdullahoğlu Cad. No:37/1 Çankaya / ANKARA Hitit V.D. No: 070 031 8735 Mersis No: 0070031873500013

ANTİMİKROP	**ANTIMIKROP R&D AND BIOCIDAL ANALYSIS CENTER**	NAC TESTING LABORATORY ISO/IEC 17025:2017 NAC-033-TL
	TEST RESULTS (Virucidal Test)	

Test Name:	Evaluation of the virus-killing efficiency of the product coded Bİ-20-0228 according to TS EN 14476 A1 Eylül 2019) standard		
Product name:	SuperOx HandSkinandWoundAreaDisinfectant/ Active Chlorine Generated from Sodium Chloride by Electrolysis	**Product Code:**	Bİ-20-0228
Test Standart:	TS EN 14476+A1:2019-09		
Test Date:	26.09.2020		
Working Conditions	**Usage**	Ready to Use	
	Diluter	-	
	Test density	%80 Concentration	
	Appearance after dilution	-	
	Contact Time	90 Seconds	
	Test temperature	22-25 ^{0}C	
	Inhibitor	Temiz şartlar: 0,3 g/l bovine albumin solüsyonu	
	Test item appearance	-	
	Incubation temperature	37 ^{0}C	
	Neutralisation Method Test	Dilution Neutralisation	
	Organism	*COVID-19 (SARS-CoV-2) (Clinical Isolate) (GenBank:MT955161.1)*	
	Test Cell	VERO E6 hücre hattı	
Tester	**Name/Surname: Murat ERTÜRK**	**Signature:**	

Figure 1. **Virucidal effect of SuperOx Hand Skin and WoundAreaDisinfectant/Active Chlorine Generated from Sodium Chloride by Electrolysis on COVID-19 (*SARS-CoV-2) (Clinical Isolate)* virus in clrean conditions**



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Test Matter	Test Density	Inhibitor	Cytotoxicity (Log TCID50)	Log TCID50 after ..... seconds					'After 90 seconds >4 Log
				0	30	60	90	120	
SuperOx El Cilt ve Yara Çevresi Dezenfektanı/Active Chlorine Generated from Sodium Chloride by Electrolysis	%80	Clean Conditions (3 g/L BSA)	0,5	-	-	-	0,5	-	7,33
		Dirty Conditions (3 g/L BSA+Eritrosit)	-	-	-	-	-	-	-
Formaldehyde	% 0.7 (w/v)	PBS	-	-	-	-	-	-	-
Virus Control	-	PBS	-	-	-	-	-	-	-
		Clean Conditions (3 g/L BSA)	-	7,83	-	7,83	-	-	-
		Dirty Conditions (3 g/L BSA+Eritrosit)	-	-	-	-	-	-	-

* Log reduction= Log Virus Control t 1min. – Log Test Matter t 1,5 min

Test Matter	Density	Inhibitor	Contact Time (Seconds)	Dilution (Log)*						
				-2	-3	-4	-5	-6	-7	-8
SuperOx Hand Skin anf Wound 'Area Disinfectant/. 'Active Chlorine Generated from Sodium Chloride by Electrolysis	%80	Clean Conditions (3 g/L BSA)	90	000 000	000 000	000 000	000 000	000 000	000 000	000 000
SuperOx Hand Skin and Wound 'Area Disinfectant/Active Chlorine Generated from Sodium Chloride by Electrolysis Cytotoxicity	%80	Clean Conditions (3 g/L BSA)	-	000 000	000 000	000 000	000 000	000 000	000 000	000 000
Formaldehyde	% 0.7	PBS	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
Formaldehyde Cytotoxicity	% 0.7	PBS	-	-	-	-	-	-	-	-
Virus Control	-	Clean Conditions (3 g/L BSA)	0	444 444	444 444	444 444	444 444	444 433	110 000	000 000
			60	444 444	444 444	444 444	444 444	434 444	000 330	000 000

* The numbers 0-4 indicate the presence of cpe caused by the virus and the ratio of cpe in the well content cell layer. (0: no cpe; 1: 25 % cpe; 2: 50 % cpe, 3: 75 % cpe; 4: 100 % cpe).

RESULT

The method validation performed test is valid only if it meets the following conditions.

Conditions	Interpretation
1.1. The virus test suspension should show a 4 log difference in virus titer.	Virus titer is sufficient to show 4 log difference.
1.2. The cytotoxicity of the product should not prevent a 4 log difference in virus titer.	Product toxicity does not preclude 4 log difference
1.3. The interference control test result should not show a difference of more than 1 Log in virus titer compared to the virus control.	The interference control is appropriate.
1.4. The difference in virus titer should be ≤ 0.5 log in the activity suppression test result.	The eluate obtained after dilution with ice cold medium + chromatography does not prevent virus growth.
1.5. The virucidal effect of > 4 log of the reference inactivator should be appropriate in the > 60 minute test.	Formaldehyde used as reference inactivator showed> 4 log virucidal effect in> 60 minutes.

According to the TS EN 14476+A1:2019-09 standard, product named ***SuperOx Hand Skin and Wound Area Disinfectant/Active Chlorine Generated from Sodium Chloride by Electrolysis*** *has VIRUCIDAL EFFECT on COVID-19 {SARS-CoV-2) {clinical isolate) virus when used undiluted under clean conditions at room temperature in 90 seconds.*

DATE:01.10.2020
ANKARA

Microbiological Analysis Laboratory Unit Manager	Quality Manager	Responsible Manager
Uzman Bio. Fulya PAK	Nihan SEVEN	Sorumlu Yönetici Prof. Dr. Murat ERTÜRK