



**REPUBLIC OF TURKEY
YEDITEPE UNIVERSITY
BIOCIDAL-RESEARCH AND DEVELOPMENT LABORATORY**

**FRESH DETOX
ANTIBACTERIAL WET WIPES
ANTIVIRAL ACTIVITY ANALYSIS REPORT**



REPUBLIC OF TURKEY

IOCIDAL-RESEARCH AND DEVELOPMENT LABORATORY

BIOCIDAL PRODUCT ANALYSIS REPORT

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Tested Product Name	FRESH DETOX ANTIBACTERIAL WET WIPES
Sample Record Number	2020-161/AG200161
Report Record Number	200285-00/AG07
Date	20.08.2020

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Document No: R04.P11
First Issue Date: 01.07.2017

Rev.No: 01
Rev. Date : 02.01.2019

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1. PRODUCT INFORMATION

Tested Product Name	FRESH DETOX ANTIBACTERIAL WET WIPES
Product Arrival Date	23.07.2020
Product Arrival	With cargo
Sample Accept Temperature	23 ° C
Sample Packing Material	Original sealed packaging
Sample Amount	10 Pieces x 80 wipes
Purpose of Analysis	Special request
Sample Manufacturer Name And Adress	Aqua Kozmetik Dış. Tic. A.Ş. Cumhuriyet Mah. Yıldırım Çınar Sok. No:19/A/2 Büyükçekmece İstanbul
Active Substances of Product	-
Sample Charge/Serial No	2020-0000
Sample Sending Institution	Aqua Kozmetik Dış. Tic. A.Ş.
Sample Address	-
Production And Expiration Date Of Sample	17.06.2020-17.06.2023

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2. PRODUCT ANALYSIS RESULTS

2.1. Anti-Viral Efficiency Analysis

Tested virus and strain	Analysis Method	Test Start and end date	Tested virus and strain properties	Tested Dose	Contact Method	Duration	Test Conditions (Clean)	Test Conditions (Dirty)	Test Cell Culture and Dilution Buffer
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Poliovirus Type 1 Lsc 2 ab	TS EN 14476	21.07.2020 11.08.2020	Rvb 1260 coded strain	%100	Liquid mixture (inside the cell culture plates)	5 minutes	BSA-containing medium (20°C)	BSA and sheep erythrocytes containing medium, (20°C)	HeLa cell culture (ATCC CCL-23) MEM, PBS, Hard water
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Human Adenovirus Type 5	TS EN 14476	21.07.2020 11.08.2020	VR-5 coded reference strain of ATCC	%100	Liquid mixture (inside the cell culture plates)	5 minutes	BSA-containing medium (20°C)	BSA and sheep erythrocytes containing medium, (20°C)	HEp-2 cell culture (ATCC CCL-23) MEM, PBS, Hard water
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Murine Norovirus S99 Berlin	TS EN 14476	21.07.2020 11.08.2020	Rvb 0651 coded strain	%100	Liquid mixture (inside the cell culture plates)	5 minutes	BSA-containing medium (20°C)	BSA and sheep erythrocytes containing medium, (20°C)	RAW cell culture (ATCC TIB-71) MEM, PBS, Hard water

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2.2. Anti-Viral Efficiency Analysis Results Table

Tested Virus	Product Use Area	Referans Virus Titer (1)	Virus titer with the disinfectant (2)		Reduction rate in virus titer (3)		Result Evaluation	Conclusion
			Clean Condition	Dirty Condition	Clean Condition	Dirty Condition		
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Poliovirus Type 1 Lsc 2 ab	Public and Personal Area	5.0	1.0	1.0	4.0	4.0	Biocidal Product Analysis and Authorized Laboratories Instruction TS EN 14476	Pass
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Human Adenovirus Type 5	Public and Personal Area	5.5	1.5	1.5	4.0	4.0	Biocidal Product Analysis and Authorized Laboratories Instruction TS EN 14476	Pass
Quantitative suspension test for the evaluation of virucidal activity in the medical area - MURINE Norovirus S99 Berlin	Public and Personal Area	5.0	1.0	1.0	4.0	4.0	Biocidal Product Analysis and Authorized Laboratories Instruction TS EN 14476	Pass

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Microbiological Parameter	Technical	Method Summary
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Poliovirus Type 1 Lsc 2 ab	Spearman-Karper method	Serial dilutions of reference Poliovirus type 1, chat strain were inoculated onto HeLa cells and viral titer was calculated using Spearman-Karper method based on the virus dilution which exerted visible cytopathic effect under invert microscope.
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Human Adenovirus Type 5	Spearman-Karper method	Serial dilutions of reference Human adenovirus type 5, Adenoid 75 strain were inoculated onto HEP-2 cells and viral titer was calculated using Spearman-Karper method based on the virus dilution which exerted visible cytopathic effect under invert microscope.
Quantitative suspension test for the evaluation of virucidal activity in the medical area - Murine Norovirus S99 Berlin	Spearman-Karper method	Serial dilutions of reference Murine Norovirus RVB 0651 strain were inoculated onto RAW cells and viral titer was calculated using Spearman-Karper method based on the virus dilution which exerted visible cytopathic effect under invert microscope.
COMMENT	As tested concentration FRESH DETOX ANTIBACTERIAL WET WIPES; 1/1,10% and 1% was found to exert cytotoxicity against test cell culture, the highest concentration of the disinfectant which did not display any toxicity, 0,1 % was used in the experiments. According to the calculations based on test results, 6,5ml/lit concentration of FRESH DETOX ANTIBACTERIAL WET WIPES provided at least 4 log reduction in virus titer at room temperature (20 °C) in all test conditions (see result table) for 60 minutes contact time. According to TS EN 14675, OECD ENV/JM/MONO(2012)15 standards and TS EN 14476:2014-2 disinfectants has to provide minimum 4 log virus titer reduction to be an acceptable virucidal agent. The results of the test show that FRESH DETOX ANTIBACTERIAL WET WIPES 99.99% antiviral activity against Poliovirus Type 1, Human Adenovirus Type 5 and Murine norovirüs at room temperature (20 °C) for 5 minutes contact time when used at %100 concentration.	

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3. APROVALS AND SIGNATURES


A. Burcin ASUTAY
Biologist
Virology Laboratory Manager

20.08.2020

Serap DELİMEHMETOGULLARI
Biologist
Sample Acceptance and Reporting Manager


Prof. Dr. Fikretin ŞAHİN
Chair of Biocidal Laboratory
19.08.2020

4. LEGAL INFORMATION

The entire or a part of this report can only be copied with the approval of laboratories of Yeditepe University, Biocidal-Research and Development Laboratory. In addition, this report cannot be used for other purposes (for advertising purposes) without the permission of laboratories of Y Yeditepe University, Biocidal-Research and Development Laboratory and the name of the university cannot be written on the product label. Upon detection of otherwise, Yeditepe University Rectorate reserves to the right to take any legal action.



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5. GENERAL INFORMATION

1. As a result of the examination and analysis, the above mentioned values were determined.
2. Analysis results are valid for the sample above-mentioned.
3. Any part of this analysis report can not be used by itself or separately.
4. This report can not be partially copied or reproduced without the written permission of the laboratory.
5. This report cannot be used in judicial/administrative proceedings and for advertising purposes.
6. Unsigned and unsealed reports are invalid.
7. Abbreviations: D: Evaluation. U: Suitable. U.D.: Not Suitable. D.Y.: Evaluation can not be made. G.K.: Recovery. Ö.B.: Measurement Uncertainty. Ö.L.: Measurement Limit. U.S.S.: Long Term Stability. K.S.S.: Short Term Stability. A.U.S.: Opened Product Stability.
8. The laboratory has no responsibility for sampling. For this reason, uncertainties arising from sampling are not taken into consideration.
9. For Anti-Viral activity test results, evaluation as SUITABLE means that the product is active against the relevant virus/strain concentration on which worked, and evaluation as NOT SUITABLE means that it is inactive.

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