REPUBLIC OF TURKEY
YEDITEPE UNIVERSITY
BIOCIDAL AND R&D LABORATORIES

REPORT OF RESULT OF ONESPRAY ANTIVIRAL ACTIVITY ANALYSIS

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R.T. YEDİTEPE UNIVERSITY

Sample Name	ONESPRAY
Sample Registration No	2020-3/200003
Report No-Rev. No / Report Code	201001-01 / 07
Date of Reporting	02.03.2020

REPORT CONTENTS

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Yeditepe Üniversitesi 26 Ağustos Yerleşimi, İnönü Mahallesi, Kayışdağı Caddesi 34755 Ataşehir/İstanbul
P. 0216 578 00 00 / 3176 www.yeditepe.edu.tr F. 0216 578 08 29

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1. SAMPLE INFORMATIONS

Trade Name Of The Product	ONESPRAY
Sample Arrival Date/Hour	13.1.2020 15:27:00
Product/License Owner	Kafgrup Sağlık Hizmetleri
Formulation Type	Liquid
Formulation Content	Ethyl Alcohol 30% w/w, Propanol 10% w/w Didecylmethylpoly(oxethyl) Ammonium Propionate 0,25% w/w
Institution Sent The Sample/Date, Number	İstanbul İSM / 31.12.2019, E. 63315
Sample Arrival Reason, Status Of Seal And Amount	Basis of License / Sealed 15x400 ml
Address That Sample Was Taken	Kaf Grup Sağlık Hizm. İnş. San. ve Tic. Ltd. Şti. Hadımköy Mah. Deniz Kızı Sok. No:4/5 Arnavutköy İstanbul
Production Place Of The Sample	Kaf Grup Sağlık Hizm. İnş. San. ve Tic. Ltd. Şti. Hadımköy Mah. Deniz Kızı Sok. No:4/5 Arnavutköy İstanbul
Type Of Packaging Material	Pe
Sample Charge/Serial No	ONCR271219/002
Sample Production And Expiry Date	27.12.2019 / 27.12.2021

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2. ANALYSIS RESULTS

2.1 Antiviral Test Method Application Details

Virus and Strain Tested	Test Method	Test Starting and Ending Date	Features of Virus and Strain	Application Dose	Contact Type	Waiting Time	Test Clean Environment Conditions	Test Dirty Environment Conditions	Cell Culture and Dilution Buffer
Antivirus analysis of chemical disinfectants and antiseptics used in medicine - Poliovirus Type 1	TS EN 14476	24.01.2020 14.02.2020	Reference strain of ATCC coded VR-192	Direct (1/1)	Liquid mixture (in test plates)	1 minute	Environment containing BSA (20°C)	Environment containing BSA and sheep erythrocyte (20°C)	Hep-2 cell culture (ATCC CCL-23) MEM, PBS, Hard water
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Human Adenovirus Type 5	TS EN 14476	24.01.2020 14.02.2020	Reference strain of ATCC coded VR-5	Direct (1/1)	Liquid mixture (in test plates)	1 minute	Environment containing BSA (20°C)	Environment containing BSA and sheep erythrocyte (20°C)	Hep-2 cell culture (ATCC CCL-23) MEM, PBS, Hard water
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Murine norovirus	TS EN 14476	24.01.2020 14.02.2020	Reference strain of ATCC coded PTA-5935	Direct (1/1)	Liquid mixture (in test plates)	1 minute	Environment containing BSA (20°C)	Environment containing BSA and sheep erythrocyte (20°C)	Hep-2 cell culture (ATCC CCL-23) MEM, PBS, Hard water

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2.2 Test Results and Test Evaluation Table

Virus Name	Disinfectant Usage Area	Reference Virus Titer (1)	Disinfectant Virus Titer(2)		Rate of Decrease in Virus Titer(3)		Impact Evaluation Method	D
			Clean Environment	Dirty Environment	Clean Environment	Dirty Environment		
Antivirus analysis of chemical disinfectants and antiseptics used in medicine - Poliovirus Type 1	Public and personal space	5.5	1.5	1.5	4.0	4.0	Instruction on Biocidal Product Analysis and Authorized Laboratories TS EN 14476	U
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Human Adenovirus Type 5	Public and personal space	5.5	1.5	1.5	4.0	4.0	Instruction on Biocidal Product Analysis and Authorized Laboratories TS EN 14476	U
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Murine norovirus	Public and personal space	5.0	1.0	1.0	4.0	4.0	Instruction on Biocidal Product Analysis and Authorized Laboratories TS EN 14476	U

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2.3 Antiviral Activity Test Method Informations

Test Parameter	Method/Technique	Method Summary
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Poliovirus Type 1	Cell Culture-Spearman Karber method	The non-toxic concentration in the cell culture of the liquid form samples is determined. After inoculation of reference viruses with cells, a non-toxic sample is tested. Compared with virus controls and virus titer is calculated according to the Spearman-karber method.
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Human Adenovirus Type 5	Cell Culture-Spearman Karber method	The non-toxic concentration in the cell culture of the liquid form samples is determined. After inoculation of reference viruses with cells, a non-toxic sample is tested. Compared with virus controls and virus titer is calculated according to the Spearman-karber method.
Antivirus analysis of chemical disinfectants and antiseptics used in medicine – Murine norovirus	Cell Culture-Spearman Karber method	The non-toxic concentration in the cell culture of the liquid form samples is determined. After inoculation of reference viruses with cells, a non-toxic sample is tested. Compared with virus controls and virus titer is calculated according to the Spearman-karber method.
REMARK/DESCRIPTION	Since the 10% and 1% suspensions of the tested ONESPRAY disinfectant showed a cytopathic effect on the cells in cell culture, the lowest ratio of the disinfectant solution, ie 0.1%, which did not show cytopathic effect was used in this study. In the calculations made as a result of the test, it was determined that under all experimental conditions (see result table), virus titer was caused to reduce at least 4 log, when ONESPRAY disinfectant is used undiluted (direct 1/1) at room temperature (20°C), after 1 minute of application time in clean and dirty conditions. According to TS EN 14476:2014-02, TS EN 14675 and OECD ENV/JM/MONO(2012)15 standards and Biocidal Regulation, disinfectants with product types 1, 2, 3 and 4 are required to lower the virus titer of 4 logs (3 logs for pool water) or more for their virucidal activity. In conclusion: These experiment results show that when the test ONESPRAY disinfectant is used undiluted (direct 1/1), at room temperature (20°C) in 1 minute of application time, it is 99.99% effective against Poliovirus Type 1 virus, Human Adenovirus Type 5 virus, Murine Norovirus.	
REVISION DESCRIPTION	The report was revised on 02.03.2020 because the sample serial/charge number of the product was written incorrectly in the Sample Information section. The report dated 25.02.2020 with the Report No-Rev No/Report Code of 201001-00/07 has lost its validity.	

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3. APPROVAL AND SIGNATURES

A. Burcin ASUTAY
Biologist
Antiviral Activity Lab. Unit Supervisor

Serap DELİMEHMETOĞULLARI
Biologist
Sample Acceptance and Reporting Unit Supervisor

Confirmable
Prof. Dr. Fikrettin ŞAHİN
Laboratory Supervisor

4. LEGAL INFORMATION

Yeditepe Üniversitesi 26 Ağustos Yerleşimi, İnönü Mahallesi, Kayışdağı Caddesi 34755 Ataşehir/İstanbul
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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. As stated in the "Biocidal Products Regulation" published in the Official Gazette dated 31.12.2009 and repeating numbered 27449 4, and "Instruction on Biocidal Product Analysis and Authorized Laboratories" approved with the consent dated 28.01.2019 and numbered 19020089-704.99-519, physical tests of biocidal products are made. These tests are repeated and reported in each stability test. In case the tests performed do not comply with the product specification, the product is considered not suitable and chemical and biological activity tests are not performed. Therefore, the number of reports to be produced for the same sample will vary according to the analysis results.
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.
10. Abbreviations used in the report for anti-viral activity tests:
(1) : The logarithmic $TCID_{50}$ value of the virus in mL.
(2) : The logarithmic $TCID_{50}$ value of the virus treated with disinfectant at different times and environments.
(3) : The logarithmic $TCID_{50}$ ratio between virus titer and virus with disinfectant titer.

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