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Copy No.: 1 Issue No.: 1

Test report No. S33/2020

DETERMINATION OF BACTERICIDAL AND YEASTICIDAL (EN 16615:2015) ACTIVITY OF THE PRODUCT

OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Sample ID: S33/2020

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Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments Client: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Producer: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota

Office D.83, Kücükcekmece, Istanbul, TURKEY

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Incoming date: 30.1.2020

Delivery date: 16.4.2020

Hodonín, 16.4.2020

Ing. Jana Ślitrová, Head of Laboratory

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Sample ID: S33/2020 Sampling date: 29.1.2020 Rep No: 48 Sample delivered: 30.1.2020

Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001 Testing date: 17.3. - 1.4.2020

Sampled: by client Delivered amount: $2 \times 1,5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Client: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota

Office D.83, Kücükcekmece, Istanbul, TURKEY

Subject of testing:

Determination of bactericidal and yeasticidal activity of the product.

Identification of the sample:

Name of the product: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes

for Medical Instruments

Batch number: KAFG35-1200212001

Date of manufacture: 22.01.2020 Expiry date: 22.01.2022

Manufacturer: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI,

Atakent Mh. 221. Sk. No:3A Rota Office D.83, Kücükcekmece,

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Istanbul, TURKEY

Incoming date: 30.1.2020

Storage conditions: room temperature

Active ingredients: CAS 64-17-5 Ethanol 30%

CAS 67-63-0 2-Propanol 10%

CAS 94667-33-1 Didecyldimethylpoly(oxethyl) Ammonium

Propionate 0.25%

Experimental conditions: Testing of disinfecting efficiency of chemical disinfecting and

antiseptic agents on carriers

SOP-M-19-00 (EN 16615:2015)

Period of analysis: 17.3. - 18.3.2020Lab temperature: $20 \, ^{\circ}\text{C} \pm 2.5 \, ^{\circ}\text{C}$ Temperature of media: $20 \, ^{\circ}\text{C} \pm 1 \, ^{\circ}\text{C}$

Test method: dilution neutralization method

Neutralization medium: Dey-Engley Neutralizing Broth M 1062

Product diluent: distilled water

Appearance of the product: ready to use wipes (wet white wipes) distilled water + polysorbate 80 Water control:

Test concentration: 100% (wet white wipes)

Contact time: 1 min

Interfering substances: 0.3 g/l BSA (clean conditions)

Test organisms: Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538 Enterococcus hirae ATCC 10541

Incubation conditions:

 $37 \, ^{\circ}\text{C} \pm 1 \, ^{\circ}\text{C}$, 24 hours

Test surface: PVC with PUR coating, width 2.5 mm, 20 cm x 50 cm. The surface is cleaned by 70% n-propanol. After drying draw 4 squares 5 cm x 5 cm

5 cm apart, mark them as test fields 1 to 4. The drying controls D_{C0} and D_{Ct} are performed on smaller surface (7 cm x 13 cm, 2 squares 5

cm x 5 cm).

Wipe: 17.5 cm x 28 cm, 55% cellulose, 45% polyethylenterephtalate (PET),

the wipe is used only once. 30 minutes before testing put the wipe in Petri dish with 16 ml of the distilled water and polysorbate 80. The

wet wipe is weighed before and after testing.

Test weight: granite, lenght 11.9 cm, width 8.2 cm, height 8.4 cm, weight 2.4 kg Tampons: sterile, length 150 mm, disposable, tip made of pure cotton without

compounds inhibiting or supporting the effect of product solution or

growth of microorganisms, producer F.L. Medical

Sample ID: S33/2020

Sampling date: 29.1.2020 Rep No: 48 Sample delivered: 30.1.2020

Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. - 1.4.2020

Sampled: by client

Delivered amount: $2 \times 1.5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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Parafilm:

Parafilm® M, 10.2 cm x 38 m, producer Brand disposable, protecting the horisontal surface and vertical surfaces before contamination during wiping.

Test procedure:

1. Preparation of the test suspension

2. Determination of CFU in the test suspension

3. Quantitative test on carriers according to EN 16615:2015

4. Incubation and calculation

5. Expression and interpretation of results

Note:

Bactericidal activity - the capability of a product to produce a reduction in the number of viable bacterial cells of relevant organisms under defined conditions on nonporous surface in the field 1 by at least a 5 lg reduction (105). $R = D_{Ct}/N_a$ or $\lg R = \lg D_{Ct} - \lg N_a$ the reduction in viability, the drying time: 20 - 30 min

The standard:

EN 16615:2015 Chemical disinfectants and antiseptics – Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4field test) - Test method and requirements (phase 2, step 2) April 2015

EN ISO 4833-1 Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique, September 2013

The Number of CFU in the tested product (SOP-M-07-00 (EN ISO 4833-1)): 0 CFU/ml (solution)

Sample ID: S33/2020

Sampling date: 29.1.2020 Sample delivered: 30.1.2020

Rep No: 48 Sample delivered: 30.1.2020 Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. - 1.4.2020

Sampled: by client

Delivered amount: $2 \times 1,5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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1. Testing the efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on Pseudomonas aeruginosa ATCC 15442 on non-porous surfaces

Tab No. 1.1 Verification of methodology, temperature 20°C, clean conditions

Valida	ation of suspension	n (N _{V0})	Neutra	lizer toxicity con	trol (B)	Method validation (C), produc		product conc. 100%
V_{c1}	64	Φ -505	V _{c1}	62	Ø −51.5	V _{c1}	59	A 56
V_{c2}	53	$\Phi_{\text{Nvo}} = 58.5$	V _{c2}	(0) = 313	V _{c2}	53	$\Phi_{\rm C} = 56$	
30 ≤ €	$p_{\rm Nvo} \leq 160$		$\Phi_{\mathbf{B}} \geq 0$.	.5 Φ _{Nvo}		$\Phi_{\rm C} \ge 0$	0.5 Φ _{Nvo}	
X	yes	no	x	yes	no	X	yes	no

Tab No. 1.2 Test suspension

Test suspension N	Dilution	V_{c1}	V _{c1}		Test suspension N_0 $N_0 = N/20$, $lg N_0 = 8.38$			
$\Phi = 47.5 \times 10^8 = \lg 9.68$	10-7	> 330	> 330					
$9.17 \le \lg N \le 9.70$	10-8	46	49		$7.88 \le \lg N_0 \le 8.40$			

Tab No. 1.2.1 Drying in time 0

1 0	1 /4 5	105) 600
$\lg D_{C0} = \lg (\Phi \times 5 \times 10^5) = 6.92$		
$6.88 \le \lg D_{C0} \le 8.40$	$c_0 \le 8.40$	

Tab No. 1.2.2 Drying in time t

Drying control (D _{Ct})	Dilution	V_{c1}	V _{c1}		1- D 1- (4		105) 6.00
	10-4	140	162		$\lg D_{Ct} = \lg (\Phi \times 5 \times 10^5) = 6.88$		
	10-5	15	17	17	$6.88 \le 1 \text{g D}_{Ct} \le 8.40$		
				x	yes		no

Tab No. 1.3.1 Test with water N_w - the effect of water (Wipe with distilled water + polysorbate 80) on Pseudomonas aeruginosa ATCC 15442

on non-porous surfaces, clean conditions

Field / contact time (min)	Dilution after test procedure	V_c	$N_W = (\Phi \times 5)$	N _w requirement >10 cfu/25 cm ²
2/1	10°	86	430	yes
3 / 1	10°	72	160	yes
4 / 1	100	103	515	ves

Tab No. 1.3.2 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on Pseudomonas aeruginosa ATCC 15442 on non-porous surfaces, clean conditions, field 2-4

p to / till betitelementens er	or or Surrober 111 C C 10 1 12	on non perous surrue	o, cream contaminations, mera 2	
Test concentration (%) /contact time (min)	Dilution after test procedure	V_c	$N_a = (\Phi \times 5)$	N _a requirement <50 cfu/25 cm ²
/conditions / field				
100/1/clean/2	10 ⁰	0	<14	yes
100/1/clean/3	10°	0	<14	yes
100/1/clean/4	10°	0	<14	yes

Tab No. 1.3.3 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on *Pseudomonas aeruginosa* ATCC 15442 on non-porous surfaces, clean conditions, field 1

Test concentration (%) /contact time (min) /conditions / field	Dilution after test procedure	V_{c1}	V_{c2}	lg N _a (Φ x 5)	
100/1/clean/1	10 ⁰	<14	<14	<1.85	≥ 5.03

Tab No. 1.4 Test - weight of wipes before and after testing

Weight of wipes	Weight before testing (g)	Weight after testing (g)	Difference (g)
OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes)	12.3	11.3	1.0
Wipe with distilled water + polysorbate 80	19.0	18.0	1.0

Sample ID: S33/2020

Sampling date: 29.1.2020 Sample delivered: 30.1.2020

Rep No: 48 Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. - 1.4.2020

Sampled: by client

Delivered amount: $2 \times 1,5 \text{ kg} + 2 \times 100 \text{ pcs}$ Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Client: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota

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2. Testing the efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on Staphylococcus aureus ATCC 6538 on non-porous surfaces

Tab No. 2.1 Verification of methodology, temperature 20°C, clean conditions

Validation of suspension (N _{V0})		Neutr	alizer toxicity con	trol (B)	Method	l validation (C),	product conc. 100%	
V _{c1}	35	Φ - 46	V _{c1}	36	A 265	V _{c1}	34	
V _{c2}	57	$\Phi_{\text{Nvo}} = 46$	V_{c2} 37 $\Phi_{\mathbf{B}} = 36.5$			V _{c2}	38	$\Phi_{\rm C} = 36$
$30 \leq 9$	$p_{Nvo} \leq 160$		$\Phi_{\rm B} \ge 0$	$0.5 \; \Phi_{\text{Nvo}}$		$\Phi_{\rm C} \ge 0$.	5 Φ _{Nvo}	
X	yes	no	X	yes	no	x	ves	no

Tab No. 2.2 Test suspension

Test suspension N	Dilution	V _{cl}	V _{c1}	Test suspension N ₀				
$\Phi = 43 \times 10^8 = \lg 9.63$	10-7	> 330	> 330	$N_0 = N/20$, $\log N_0 = 8.33$				
$9.17 \le \lg N \le 9.70$	10-8	34	52	1		$N_0 \le 8.40$		

Tab No. 2.2.1 Drying in time 0

Drying control (D _{C0})	Dilution	V_{c1}	V _{c1}	T		
	10-4	> 330	> 330	7	$\lg D_{C0} = \lg (\Phi \times 5 \times 10^5) = 7.65$	
	10-5	84	96	7	$6.88 \leq 19$	$g D_{C0} \le 8.40$
				x	ves	no

Tab No. 2.2.2 Drying in time t

	Dilution	V_{cl}	V_{c1}				
Drying control (D _{Ct})	10-4	> 330	> 330		$lg D_{Ct} = lg (\Phi \times 5 \times 10^5) = 7.6$ 6.88 \le lg D _{Ct} \le 8.40		
	10-5	89	88		6.88 ≤	$\leq \lg D_{Ct} \leq$	8.40
				Х	yes		no

non-porous surfaces, clean conditions

Field / contact time (min)	Dilution after test procedure	V _c	$N_W = (\Phi \times 5)$	N _W requirement >10 cfu/25 cm ²
2/1	10°	92	460	yes
3 / 1	10°	5	25	ves
4/1	10°	4	20	ves

Tab No. 2.3.2 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on Staphylococcus aureus ATCC 6538 on non-porous surfaces, clean conditions, field 2-4

Test concentration (%) /contact time (min) /conditions / field	Dilution after test procedure	V _c	$N_a = (\Phi \times 5)$	N _a requirement <50 cfu/25 cm ²
100/1/clean/2	10°	1	<14	ves
100/1/clean/3	10°	2	<14	ves
100/1/clean/4	10°	2	<14	yes

Tab No. 2.3.3 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on Staphylococcus aureus ATCC 6538 on non-porous surfaces, clean conditions, field 1

Test concentration (%) /contact time (min) /conditions / field	Dilution after test procedure	V_{e1}	V_{c2}	lg N _a (Φ x 5)	lg R (lg DCt = 7.65)
100/1/clean/1	10°	<14	<14	<1.85	≥ 5.80

Tab No. 2.4 Test – weight of wipes before and after testing

Weight of wipes	Weight before testing (g)	Weight after testing (g)	Difference (g)
OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes)	11.1	10.4	0.7
Wipe with distilled water + polysorbate 80	18.8	17.8	1.0

Sample ID: S33/2020

Sampling date: 29.1.2020

Rep No: 48 Sample delivered: 30.1.2020 Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. – 1.4.2020

Sampled: by client

Delivered amount: $2 \times 1.5 \text{ kg} + 2 \times 100 \text{ pcs}$ Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Client: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota

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3. Testing the efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on Enterococcus hirae ATCC 10541 on non-porous surfaces

Tab No. 3.1 Verification of methodology, temperature 20°C, clean conditions

Valida	alidation of suspension (N _{V0})			Neutralizer toxicity control (B)		Metho	d validation (C),	product conc. 100%
V _{c1}	55	$\Phi_{\text{Nvo}} = 54.5$	V _{c1}	55	$\Phi_{\rm B} = 52.5$	V _{c1}	31	$\Phi_{\rm C} = 36$
V _{c2}	54	₩Nvo - 34.3	V_{c2} 50 $\Psi_B = 32.3$	V_{c2}	41	$\Phi_{\rm C} = 30$		
30 ≤ Ф	_{Nvo} ≤ 160		$\Phi_{\rm B} \geq 0$	0.5 Φ _{Nvo}		$\Phi_{\rm C} \ge 0$	$.5 \Phi_{\text{Nvo}}$	
X	yes	no	x	yes	no	x	ves	no

Tab No. 3.2 Test suspension

Test suspension N	Dilution	V _{c1}	V_{c1}		N_0	
$\Phi = 49.5 \times 10^8 = \lg 9.69$	10-7	> 330	> 330		$N_0 = N/20$, $\log N_0 = 8.39$	
$9.17 \le \lg N \le 9.70$	10-8	48	51	$7.88 \le \lg N_0 \le 8.40$		

Tab No. 3.2.1 Drying in time 0

	Dilution	V _{c1}	V _{c1}		1.0 1.4		05) = 65	
Drying control (D _{C0})	10-4	> 330	> 330		$ lg D_{C0} = lg (\Phi \times 5) $ $ 6.88 \le lg D_{C0} $			
	10-5	98	81			$O_{C0} \leq$	$t_{\rm C0} \le 8.40$	
				х	yes		no	

Tab No. 3.2.2 Drying in time t

	Dilution	V_{c1}	V _{c1}		1 0 1		
Drying control (D _{Ct})	10-4	> 330	> 330		$\lg D_{Ct} = \lg (\Phi \times 5 \times 10^5) = 7.58$		
	10-5	86	65	$6.88 \le \lg 1$	lg D _{Ct} ≤	8.40	
				х	yes		no

Tab No. 3.3.1 Test with water N_w - the effect of water (Wipe with distilled water + polysorbate 80) on Enterococcus hirae ATCC 10541 on non-porous surfaces, clean conditions

Field / contact time (min)	Dilution after test procedure	V_c	$N_W = (\Phi \times 5)$	N _w requirement >10 cfu/25 cm ²
2/1	100	21	105	ves
3 / 1	10 ⁰	35	175	ves
4/1	100	33	165	ves

Tab No. 3.3.2 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes) on Enterococcus hirae ATCC 10541 on non-porous surfaces, clean conditions, field 2-4

Test concentration (%) /contact time (min) /conditions / field	Dilution after test procedure	V _c	$N_a = (\Phi \times 5)$	N _a requirement <50 cfu/25 cm ²
100/1/clean/2	10 ⁰	2	<14	yes
100/1/clean/3	10 ⁰	- 1	<14	yes
100/1/clean/4	10 ⁰	1	20	yes

Tab No. 3.3.3 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes) on Enterococcus hirae ATCC 10541 on non-porous surfaces, clean conditions, field 1

Test concentration (%) /contact time (min) /conditions / field	Dilution after test procedure	V_{e1}	V _{c2}	lg N _a (Φ x 5)	$\frac{\lg R}{(\lg D_{Ct} = 7.58)}$
100/1/clean/1	10^{0}	<14	<14	<1.85	≥ 5.73

Tab No. 3.4 Test - weight of wipes before and after testing

Weight of wipes	Weight before testing (g)	Weight after testing (g)	Difference (g)
OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes)	14.2	12.7	1.5
Wipe with distilled water + polysorbate 80	19.3	18.4	0.9

Sample ID: S33/2020

Sampling date: 29.1.2020 Sample delivered: 30.1.2020

Rep No: 48 Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. - 1.4.2020

Sampled: by client

Delivered amount: $2 \times 1.5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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4. Evaluation of bactericidal activity of the product OneSpray Wipes Alcohol-Based Fast Acting **Disinfectant/Wipes for Medical Instruments**

Tab No. 4.1 The efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on test strains - bactericidal activity on non-porous surfaces, clean conditions, field 1

	Bactericidal ac	tivity of the p	roduct (EN 16615:2	015)		
Strain	Test temperature [°C]	Contact time [min]	Product test concentrations [%]	Interfering substances – conditions	lg R EN 16615:2015	lg R
Pseudomonas aeruginosa ATCC 15442	20	1	100	clean	≥ 5	> 5
Staphylococcus aureus ATCC 6538	20	1	100	clean	≥ 5	> 5
Enterococcus hirae ATCC 10541	20	1	100	clean	> 5	> 5

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml in the test suspension, N_{V0} = the number of cfu/ml in the test suspension for validation, N_a = the number of bacteria per ml in the test mixture, A, B, C = the number of bacteria per ml in control tests (A - experimental conditions validation, B - neutralizer toxicity validation, C - method validation $R = D_{Ct} / N_a$ or $\lg R = \lg D_{Ct} - 2 \lg D_{Ct} - 2 l_{Ct} - 2 l_{Ct$ Na the reduction in viability

Prepared by: Mgr. Karolína Světlíková, Lab Technician

Sample ID: S33/2020 Sampling date: 29.1.2020 Rep No: 48 Sample delivered: 30.1.2020

Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001 Testing date: 17.3. – 1.4.2020

Sampled: by client Delivered amount: $2 \times 1,5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

Rota Office D.83, Kücükcekmece, Istanbul, TURKEY

Client: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A Rota

Office D.83, Kücükcekmece, Istanbul, TURKEY

Experimental conditions: Testing of disinfecting efficiency of chemical disinfecting and

antiseptic agents on carriers SOP-M-19-00 (EN 16615:2015)

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Period of analysis: 30.3. – 1.4.2020

Lab temperature: $20 \,^{\circ}\text{C} \pm 2.5 \,^{\circ}\text{C}$ Temperature of media: $20 \,^{\circ}\text{C} \pm 1 \,^{\circ}\text{C}$

Test method: dilution neutralization method

Neutralization medium: Dey-Engley Neutralizing Broth M 1062

Product diluent: distilled water

Appearance of the product: ready to use wipes (wet white wipes)
Water control: distilled water + polysorbate 80
Test concentration: 100% (wet white wipes)

Contact time: 1 min

Interfering substances: 0.3 g/l BSA (clean conditions)

Test organisms: Candida albicans ATCC 10231

Incubation conditions: $30 \text{ °C} \pm 1 \text{ °C}$, 48 hours and additional period of 24 or 48 hours

Test surface:

PVC with PUR coating, width 2.5 mm, 20 cm x 50 cm. The surface is cleaned by 70% n-propanol. After drying draw 4 squares 5 cm x 5 cm 5 cm apart, mark them as test fields 1 to 4. The drying controls D_{C0}

and D_{Ct} are performed on smaller surface (7 cm x 13 cm, 2 squares 5 cm x 5 cm).

Wipe: 17.5 cm x 28 cm, 55% cellulose, 45% polyethylenterephtalate (PET),

the wipe is used only once. 30 minutes before testing put the wipe in Petri dish with 16 ml of the distilled water and polysorbate 80. The

wet wipe is weighed before and after testing.

Test weight: granite, lenght 11.9 cm, width 8.2 cm, height 8.4 cm, weight 2.4 kg
Tampons: sterile, length 150 mm, disposable, tip made of pure cotton without

compounds inhibiting or supporting the effect of product solution or

growth of microorganisms, producer F.L. Medical

Parafilm® M, 10.2 cm x 38 m, producer Brand

disposable, protecting the horisontal surface and vertical surfaces

before contamination during wiping,

Test procedure:

1. Preparation of the test suspension

2. Determination of CFU in the test suspension

- 3. Quantitative test on carriers according to EN 16615:2015
- 4. Incubation and calculation
- 5. Expression and interpretation of results

Note:

Yeasticidal activity – the capability of a product to produce a reduction in the number of viable yeast cells of *Candida albicans* under defined conditions on nonporous surface in the field 1 by at least a 4 lg reduction (10^4). $R = D_{Ct}/N_a$ or lg $R = lg \ D_{Ct} - lg \ N_a$ the reduction in viability, the drying time: $20 - 30 \ min$

The standard:

EN 16615:2015 Chemical disinfectants and antiseptics – Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4-field test) – Test method and requirements (phase 2, step 2) April 2015

Sample ID: S33/2020

Sampling date: 29.1.2020

Rep No: 48

Sample delivered: 30.1.2020 Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Sampled: by client

Testing date: 17.3. - 1.4.2020

Delivered amount: $2 \times 1,5 \text{ kg} + 2 \times 100 \text{ pcs}$ Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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5. Testing the efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on Candida albicans ATCC 10231 on non-porous surfaces

Tab No. 5.1 Verification of methodology, temperature 20°C, clean conditions

Valid	dation of suspensio	n (N _{V0})	Neutralizer toxicity control (B)			Method validation (C), product conc. 100%			
V _{cl}	47	$\Phi_{\text{Nyo}} = 41.5$	V _{c1}	35	A - 41	V _{c1}	44	* 20	
V _{c2}	36	$\Phi_{\text{Nvo}} = 41.5$	V_{c2}	47	$\Phi_{\mathbf{B}} = 41$	V _{e2}	32	$\Phi_{\rm C} = 38$	
30 ≤	$\Phi_{\text{Nvo}} \leq 160$		$\Phi_{\rm B} \geq 0$	0.5 Φ _{Nvo}		$\Phi_{\rm C} \ge 0$.5 Φ _{Nvo}		
X	yes	no	x	yes	no	X	yes	no	

Tab No. 5.2 Test suspension

Test suspension N	Dilution	V_{cl}	V _{cl}		Test suspension N ₀			
$\Phi = 40 \times 10^7 = \lg 8.60$	10-6	> 330	> 330		$N_0 = N/20$, $\log N_0 = 7.30$			
$8.17 \le \lg N \le 8.70$	10-7	44	36			$\log N_0 \le 7.40$		
				x	ves	no		

Tab No. 5.2.1 Drying in time 0

Drying control (D _{C0})	Dilution	V_{c1}	V _{c1}			
	10-3	> 330	> 330		$\begin{array}{c} lg \ D_{C0} = lg \ (\Phi \ x \ 5 \ x \ 10^4) = 6.43 \\ 5.88 \le \ lg \ D_{C0} \le 7.40 \end{array}$	
	10-4	57	51			
				X	ves	no

Tab No. 5.2.2 Drying in time t

Drying control (D _{Ct})	Dilution	Vcl	V _{e1}		1.5. 1.4		
	10-3	> 330	> 330				
	10-4	53	47				
				х	yes	no	

 $Tab\ No.\ 5.3.1\ Test\ with\ water\ N_w-the\ effect\ of\ water\ (Wipe\ with\ distilled\ water\ +\ polysorbate\ 80)\ on\ \textit{Candida\ albicans}\ ATCC\ 10231\ on\ non-polysorbate\ No.\ 5.3.1\ Test\ with\ water\ N_w-the\ effect\ of\ water\ (Wipe\ with\ distilled\ water\ +\ polysorbate\ 80)\ on\ \textit{Candida\ albicans}\ ATCC\ 10231\ on\ non-polysorbate\ N_w-the\ effect\ of\ water\ (Wipe\ with\ distilled\ water\ +\ polysorbate\ 80)\ on\ \textit{Candida\ albicans}\ ATCC\ 10231\ on\ non-polysorbate\ N_w-the\ effect\ non-polysorbate\ N_w-the\ N_w-the\ non-polysorbate\ N_w-the\ non-polysorbate\ N_w-the\ N_w-the\ non-polysorbat$ porous surfaces, clean conditions

Field / contact time (min)	Dilution after test procedure	V _c	$N_W = (\Phi \times 5)$	N _W requirement >10 cfu/25 cm ²
2 / 1	10°	34	170	yes
3 / 1	10°	3	15	ves
4/1	10°	4	20	yes

Tab No. 5.3.2 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on Candida albicans ATCC 10231 on non-porous surfaces, clean conditions, field 2-4

Test concentration (%) /contact time (min)	Dilution after test procedure	V _c	$N_a = (\Phi \times 5)$	N _a requirement <50 cfu/25 cm ²
/conditions / field 100/1/clean/2	10 ⁰	4	20	ves
100/1/clean/3	10 ⁰	0	<14	yes
100/1/clean/4	10^{0}	0	<14	ves

Tab No. 5.3.3 Test - the effect of OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use

wipes) on Candida albicans ATCC 10231 on non-porous surfaces, clean conditions, field

Test concentration /contact time (min) /conditions / field	Dilution after test procedure	V _{c1}	V _{c2}	lg N _a (Φ x 5)	
100/1/clean/1	10 ⁰	<14	<14	<1.85	≥ 4.55

Tab No. 5.4 Test - weight of wipes before and after testing

Weight of wipes	Weight before testing (g)	Weight after testing (g)	Difference (g)
OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes)	14.7	13.6	1.1
Wipe with distilled water + polysorbate 80	18.5	17.6	0.9

Sample ID: S33/2020

Sampling date: 29.1.2020 Sample delivered: 30.1.2020

Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. – 1.4.2020

Sampled: by client

Rep No: 48

Delivered amount: $2 \times 1.5 \text{ kg} + 2 \times 100 \text{ pcs}$ Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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6. Evaluation of veasticidal activity of the product OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Tab No. 6.1 The efficacy of chemical disinfectant OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments on test strains - yeasticidal activity on non-porous surfaces, clean conditions, field 1

Bac	tericidal and yeasti	cidal activity	of the product (EN	16615:2015)		
Strain	Test temperature [°C]	Contact time [min]	Product test concentrations [%]	Interfering substances – conditions	lg R EN 16615:2015	lg R
Candida albicans ATCC 10231	20	1	100	clean	≥ 4	> 4

Note: V_c = value is the number of cfu per ml, Φ = average V_{c1} a V_{c2} (1. + 2. duplicate V_c values), N = the number of cfu/ml in the test suspension, N_{V0} = the number of cfu/ml in the test suspension for validation, N_a = the number of bacteria and fungi per ml in the test mixture, A, B, C = the number of bacteria and fungi per ml in control tests $(A - \text{experimental conditions validation}, B - \text{neutralizer toxicity validation}, C - \text{method validation}, R = D_{Ct}/N_a$ or $\lg R = \lg D_{Ct} - \lg N_a$ the reduction in viability

Prepared by:

Mgr. Karolína Světlíková, Lab Technician

Sample ID: S33/2020

Sampling date: 29.1.2020 Rep No: 48 Sample delivered: 30.1.2020

Sample name: OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments

Batch No: KAFG35-1200212001

Testing date: 17.3. - 1.4.2020

Sampled: by client Delivered amount: $2 \times 1.5 \text{ kg} + 2 \times 100 \text{ pcs}$

Sampling point: KAF GRUP SAGLIK HIZMETLERI INS. SAN VE TIC.LTD.STI, Atakent Mh. 221. Sk. No:3A

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Interpretation:

Results of tests are in Tabs.

According to EN 16615:2015 the tested product OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes), batch No. KAFG35-1200212001, in the contact time 1 min under clean conditions at temperature 20 °C ± 2.5 °C by the dilution neutralization method decreased on non-porous surfaces on field 1 the number of viable bacterial cells of Pseudomonas aeruginosa ATCC 15442, Staphylococcus aureus ATCC 6538 and Enterococcus hirae ATCC 10541 by at least a 5 lg reduction.

According to EN 16615:2015 the tested product OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes), batch No. KAFG35-1200212001, in the contact time 1 min under clean conditions at temperature 20 °C ± 2.5 °C by the dilution neutralization method decreased on non-porous surfaces on field 1 the number of viable vegetative yeast cells of Candida albicans ATCC 10231 by at least a 4 lg reduction.

Conclusion:

The product OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments is capable of reducing the number of viable bacterial cells of the relevant organisms on non-porous surfaces under defined conditions (EN 16615:2015 - OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes), 1 min, clean, 20 °C ± 2.5 °C) to the declared values and, consequently, can be called bactericidal on non-porous surfaces.

The product OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments is capable of reducing the number of viable vegetative yeast cells of the relevant organism on non-porous surfaces under defined conditions (EN 16615:2015 - OneSpray Wipes Alcohol-Based Fast Acting Disinfectant/Wipes for Medical Instruments (ready to use wipes), 1 min, clean, 20 °C ± 2.5 °C) to the declared values and, consequently, can be called yeasticidal on non-porous surfaces.

16.4.2020, Hodonín

Approved by: Ing. Barbora Stoklásková, Leader of Study



