Nordic Tersus
Laboratory

Test report No. 024022hd

EVALUATION OF BACTERICIDAL ACTIVITY OF DISINFECTANTS AND ANTISEPTICS USED IN THE MEDICAL AREA (EN 13727)

Name of the product: CHEMISEPT MED

Batch number: 196161220
Date of test report: 05/04/2022

Digitally signed by Moraru Grigore
Date: 2024.10.14 11:26:34 EEST
Reason: MoldSign Signature
Location: Moldova
MOLDOVA EUROPEANĂ

Client, representative:
Chemi-Pharm Ltd.
Tänassilma tee 11
Tänassilma küla
Saku vald 76406
ESTONIA

EAK
EESTI AKREDITEERIMISKESKUS
ESTONIAN ACCREDITATION CENTRE
EN ISO/IEC 17025
L263

Nordic Tersus Laboratory

Test report No. 024022hd

EVALUATION OF BACTERICIDAL ACTIVITY OF DISINFECTANTS AND ANTISEPTICS USED IN THE MEDICAL AREA (EN 13727)

Name of the product:	**CHEMISEPT MED**
Batch number:	196161220
Order number:	20049
Manufacturer:	Chemi-Pharm Ltd.
Client, representative:	Chemi-Pharm Ltd., Tänassilma tee 11; Tänassilma küla; Saku vald 76406; ESTONIA; Maris Millner, +3725177090.
Date of delivery:	29.03.2022
Test material conditions:	No specific features, sample in the manufacturers tare
Storage conditions:	In room temperature, darkness
Active substance – conc.:	Ethyl alcohol 72.5% w/w, isopropyl alcohol 7.5% w/w
Appearance of the product:	Transparent, colourless liquid
Test concentration:	80%, 50%, 10%
Contact time:	15 s
Interfering substance:	3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes (dirty conditions)
Neutralizer:	-
Rinsing liquid:	Tryptone 1 g/l + NaCl, 9 g/l
Test organisms:	*Pseudomonas aeruginosa* ATCC 15442 *Staphylococcus aureus* ATCC 6538 *Enterococcus hirae* ATCC 10541 *Escherichia coli K12* NCTC 10538 *MRSA Staphylcoccus aureus ATCC 33592* *Acinetobacter baumanii ATCC 19606* *Enterococcus Faecium VRE ATCC 700221* *Salmonella enterica subsp. Typhimurium ATCC13311*
Testing method:	**EVS-EN 13727:2012+A2:2015** **Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity in the medical area - Test method and requirements (phase 2, step 1)**
Testing period:	29.03.2022 - 05.04.2022
Results:	look appendix 1-8
Interpretation and conclusion:	look appendix 9

ACCREDITED LABORATORY No L263. ISO/IEC 17025 NORDIC TERSUS LABORATORY OÜ ESTONIA

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Nele Aas-Valleriani
Microbiologist
Date of test report: 05.04.2022

* - *Data provided by the customer*

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Appendix 1

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: Tryptone 1 g/l + NaCl 9 g/l
Test organism: *Staphylococcus aureus* ATCC 6538
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 29.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
76	59	67.5	45	36	40.5	42	49	45.5	46	47	46.5
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ **A** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **B** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **C** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension: *N and N_0*	*N*	V_{C1}	V_{C2}	$\bar{x}_{wm} = 2.89 \times 10^8$; log*N* = 8.46 $N_0 = N/10$; logN_0 =7.46 $7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐
	10^{-6}	**271**	**309**	
	10^{-7}	**23**	**32**	

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.31	15s	Dirty
50.0%	-	>165	>165	>1650	>3.22	<4.24	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.24	15s	Dirty

Explanations:
V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ *Na*; LogR=LogN_0 - Log *Na*)

Appendix 2

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: Tryptone 1 g/l + NaCl 9 g/l
Test organism: *Enterococcus hirae* ATCC 10541
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 29.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
72	61	66.5	70	65	67.5	64	56	60	62	59	60.5
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ **A** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **B** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **C** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension: *N and* N_0	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 2.84 \times 10^8$; $\log N = 8.45$ $N_0 = N/10$; $\log N_0 = 7.45$ $7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐
	10^{-6}	**285**	**290**	
	10^{-7}	**19**	**31**	

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.30	15s	Dirty
50.0%	-	>165	>165	>1650	>3.22	<4.23	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.23	15s	Dirty

Explanations:
V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 3

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *Pseudomonas aeruginosa* ATCC 15442
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 29.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
130	120	125	109	126	117.5	95	125	110	94	117	105.5
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ A is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ B is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ C is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 3.43 \times 10^8$; $\log N = 8.54$
N and N_0	10^{-6}	330	330	$N_0 = N/10$; $\log N_0 = 7.54$
	10^{-7}	54	41	$7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.39	15s	Dirty
50.0%	-	<14	<14	<140	<2.15	>5.39	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.32	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 4

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *Escherichia coli K12* NCTC 10538
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 29.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
90	66	78	51	46	48.5	32	42	37	39	62	50.5
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ A is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ B is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ C is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 3.08 \times 10^8$; $\log N = 8.49$
N and N_0	10^{-6}	**324**	**283**	$N_0 = N/10$; $\log N_0 = 7.49$
	10^{-7}	**23**	**47**	$7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.34	15s	Dirty
50.0%	-	<14	<14	<140	<2.15	>5.34	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.27	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 5

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *MRSA Staphylcoccus aureus ATCC 33592*
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 04.04.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
95	92	93.5	131	137	134	73	74	73.5	130	119	124.5
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ A is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ B is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ C is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 3.10 \times 10^8$; $\log N = 8.49$
N and N_0	10^{-6}	**280**	**322**	$N_0 = N/10$; $\log N_0 = 7.49$
	10^{-7}	**39**	**41**	$7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.34	15s	Dirty
50.0%	-	>165	>165	>1650	>3.22	<4.27	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.27	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 6

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *Acinetobacter baumanii ATCC 19606*
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 30.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
157	179	168	107	134	120.5	106	111	108.5	132	152	142
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ **A** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **B** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **C** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 1.77 \times 10^8$; $\log N = 8.25$
N and N_0	10^{-6}	**125**	**193**	$N_0 = N/10$; $\log N_0 = 7.25$
	10^{-7}	**33**	**38**	$7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.10	15s	Dirty
50.0%	-	<14	<14	<140	<2.15	>5.10	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.03	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 7

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *Salmonella enterica subsp. Typhimurium ATCC 13311*
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 30.03.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
150	184	167	168	187	177.5	176	170	173	177	193	185
$30 \le \bar{x}$ $N_{vo} \le 160$? yes ☒; no ☐			$\bar{x}$ **A** is $\ge 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **B** is $\ge 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **C** is $\ge 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 3.60 \times 10^8$; $\log N = 8.56$
N and N_0	10^{-6}	**330**	**330**	$N_0 = N/10$; $\log N_0 = 7.56$
	10^{-7}	**77**	**54**	$7.17 \le \log N_0 \le 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.41	15s	Dirty
50.0%	-	<14	<14	<140	<2.15	>5.41	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.34	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 8

TEST RESULTS (bactericidal suspension test)

EVS-EN 13727:2012+A2:2015; Phase 2, step 1
Membrane filtration method
Product diluent: Distilled water
Appearance of product solutions: Transparent, colourless liquid
Rinsing liquid: tryptone 1 g/l + NaCl 9 g/l
Test organism: *Enterococcus Faecium VRE* ATCC 700221
Test temperature: +20° C; Incubation temperature: +37 °C
Interfering substance: 3 g/l bovine albmin + 3 ml/l sheep blood erythrocytes
Nordic Tersus Laboratory LLC.
Date of test: 04.04.2022
Responsible person: Kerda Treksler

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
44	57	50.5	41	38	39.5	36	39	37.5	36	44	40
$30 \leq \bar{x}$ $N_{vo} \leq 160$? yes ☒; no ☐			$\bar{x}$ **A** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **B** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐			$\bar{x}$ **C** is $\geq 0.5\ \bar{x}$ N_{vo}? yes ☒; no ☐		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 1.75 \times 10^8$; $\log N = 8.24$
N and N_0	10^{-6}	**187**	**165**	$N_0 = N/10$; $\log N_0 = 7.24$
	10^{-7}	**18**	**15**	$7.17 \leq \log N_0 \leq 7.70$; yes ☒; no ☐

Experimental results

Concentration of the product %	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
80.0%	-	<14	<14	<140	<2.15	>5.09	15s	Dirty
50.0%	-	18	58	>380	>2.58	<4.66	15s	Dirty
10.0%	-	>165	>165	>1650	>3.22	<4.02	15s	Dirty

Explanations:

V_C = count per ml (one plate or more)
$\bar{x}$ = average of V_{C1} and V_{C2} (1. + 2. Duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 9

Interpretation:

The ready to use product **CHEMISEPT MED** (batch no. 196161220) was tested according to the test method EVS-EN 13727:2012+A2:2015. The test was performed at 20 °C ± 1 °C, under dirty conditions with the contact time of 15 s. The membrane filtration method was used for testing the product's effectiveness against the reference strains: *Pseudomonas aeruginosa* ATCC 15442, *Enterococcus hirae* ATCC 10541, *Staphylococcus aureus* ATCC 6538, *Escherichia coli K12* NCTC 10538, *MRSA Staphylcoccus aureus* ATCC 33592, *Acinetobacter baumanii* ATCC 19606, *Enterococcus Faecium VRE* ATCC 700221 and *Salmonella enterica subsp. Typhimurium* ATCC13311. Under the dirty conditions the 80.0 % solution of the tested sample of the product was effective against all the reference strains tested within 15 s.

Conclusion:

The surviving count of bacterial reference strains showed at least 5lg reduction meaning that **according to EVS-EN 13727:2012+A2:2015 under dirty conditions the sample of the ready to use disinfection product CHEMISEPT MED has a bactericidal effect within 15 s.**

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