

Translation from Bulgarian language

Accredited for EXAMINATION
ROMANIA RENAR
SR EN ISO/CEI 17025:2005
Accreditation certificate
№ LI 859/2010

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EXAMINATION REPORT
№ 924/23.07.2012

a. Product identification

Product name:	OXISEPT
Batch number:	38
Valid until:	03.2013
Active substances and concentrates:	Sodium perborate 50 % taed 25 %
Manufacturer:	SC BORERO COMSERV LTD (SC BORERO COMSERV SRL) 1 Carpenului Str., Brasov
Storage conditions:	Areas protected from direct sunlight
Diluter recommended by manufacturer:	-
Number of Analysis Order /date:	119/16.05.2012
Date of receipt of product:	17.05.2012

b. Testing method

Testing method:	Dilution-neutralization
Neutralizer:	L_cysteine 1.5 %

c. Experimental conditions

Testing period:	30.05.2012 – 13.07.2012
Diluter of the product used during testing:	Hard water
Product concentrates:	2 % (required dilution) 1 %, 3 % (dilution selected by the laboratory)
External form of product:	Green powder
Contact time:	t = 10 min ± 10 c, 15 min ± 10 c

Temperature of testing:
Interfering substances:
Temperature of incubation:
Tested strains:

20 °C ± 1 °C
Beef albumin (0.3 g/l)
37 °C ± 1 °C
Mycobacterium avium ATCC 15769
Mycobacterium terrae ATCC 15755
SR EN 14348:2005 „Chemical antiseptics
and disinfectants. Quantity testing of
suspension for evaluation of the micro
bactericide action of the chemical
disinfectants for medical usage, including
disinfectants of tools. Methods of testing
and requirements ” (phase 2, stage 1)”
(PSL-MIC-05)

Method:

Analyst:
Dumitru Tatiana
Signature: *illegible*

Head of laboratory:
Biologist Gianina Croc
Signature: *illegible*

Stamp: S.C. UNILAB Srl

The present examination report is valid only in its original (photocopying is prohibited). Contains 6 pages.

Examination report № 924/23.07.2012

EXAMINATION RESULTS

I. *Mycobacterium avium*

Bacterial suspension (N and N ₀)	N	Vc ₁	Vc ₂	$N = 31 \times 10^8 = \lg N = 9.49$ $N_0 = \lg 8.49$ $8.17 \leq N_0 \leq 8.70$ X Yes No
	10 ⁻⁷	320	298	
	10 ⁻⁸	31	25	

Suspension to validate (Nv ₀)	Vc ₁	Vc ₂	M	$30 \leq \text{Average } Nv_0 \leq 160$ X Yes No
	123	152	137.5	

II. *Mycobacterium terrae*

Bacterial suspension (N и N ₀)	N	Vc ₁	Vc ₂	$N = 317 \times 10^7 = \lg N = 9.50$ $N_0 = \lg 8.50$ $8.17 \leq N_0 \leq 8.70$ X Yes No
	10 ⁻⁷	299	334	
	10 ⁻⁸	30	34	



Suspension to validate (N_{v0})	V_{c1}	V_{c2}	M	$30 \leq \text{Average } N_{v0} \leq 160$ X Yes No
	100	83	91.5	

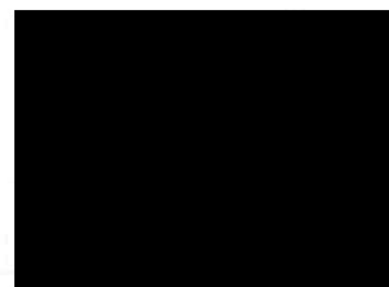
Examination report № 924/23.07.2012

1. Contact time: 10 min
Dilution: 2 %
Dilution selected by the laboratory: 1 %, 3 %
Interfering substances: beef albumin (0.3 g/l)
Temperature: 20 °C
Mycobacterium avium ATTC 15769

Testing of experimental conditions (A)			Testing of neutralizer (B)			Validation of method (C)		
Vc ₁	88	M = 90.5	Vc ₁	69	M = 73	Vc ₁	61	M = 66.5
Vc ₂	93		Vc ₂	77		Vc ₂	72	
Average A ≥ 0,5 x Average N _{v0}			Average B ≥ 0,5 x Average N _{v0}			Average C ≥ 0,5 x Average N _{v0}		
X Yes No			X Yes No			X Yes No		

Product concentration (%)	Dilution	V_{c1}	V_{c2}	LgN_a	Reduction (1gR)
1.00 %	10^0	>300	>300	6.05	2.44
	10^{-1}	>300	>300		
	10^{-2}	>300	>300		
	10^{-3}	123	100		
2.00 %	10^0	>300	>300	4.30	4.19
	10^{-1}	213	196		
	10^{-2}	25	15		
	10^{-3}	< 14	< 14		
3.00 %	10^0	>300	>300	4.03	4.46
	10^{-1}	116	100		
	10^{-2}	< 14	< 14		
	10^{-3}	< 14	< 14		

2. Requested contact time: 10 min
Dilution: 2 %
Dilution selected by the laboratory: 1 %, 3 %
Interfering substances: beef albumin (0.3 g/l)
Temperature: 20 °C
Mycobacterium terrae ATTC 15755



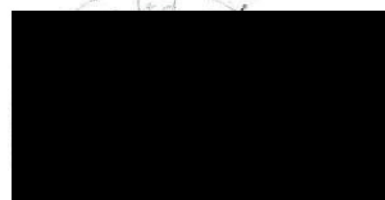
Testing of experimental conditions (A)			Testing of neutralizer (B)			Validation of method (C)		
Vc ₁	74	M = 82.5	Vc ₁	59	M = 65	Vc ₁	50	M = 58
Vc ₂	88		Vc ₂	71		Vc ₂	66	
Average A ≥ 0,5 x Average Nv ₀ X Yes No			Average B ≥ 0,5 x Average Nv ₀ X Yes No			Average C ≥ 0,5 x Average Nv ₀ X Yes No		

Product concentration (%)	Dilution	Vc ₁	Vc ₂	LgN _a	Reduction (lgR)
1.00 %	10 ⁰	>300	>300	5.55	2.95
	10 ⁻¹	>300	>300		
	10 ⁻²	316	329		
	10 ⁻³	33	38		
2.00 %	10 ⁰	>300	>300	4.26	4.24
	10 ⁻¹	199	169		
	10 ⁻²	21	15		
	10 ⁻³	< 14	< 14		
3.00 %	10 ⁰	>300	>300	3.94	4.56
	10 ⁻¹	98	78		
	10 ⁻²	< 14	< 14		
	10 ⁻³	< 14	< 14		

3. Contact time: 15 min
Dilution: 2 %
Dilution selected by the laboratory: 1 %, 3 %
Interfering substances: beef albumin (0.3 g/l)
Temperature: 20 °C
Mycobacterium avium ATTC 15769

Testing of experimental conditions (A)			Validation of method (C)		
Vc ₁	70	M = 76	Vc ₁	75	M = 70
Vc ₂	82		Vc ₂	65	
Average A ≥ 0,5 x Average Nv ₀ X Yes No			Average C ≥ 0,5 x Average Nv ₀ X Yes No		

Product concentration (%)	Dilution	Vc ₁	Vc ₂	LgN _a	Reduction (lgR)
1.00 %	10 ⁰	>300	>300	5.78	2.71
	10 ⁻¹	>300	>300		
	10 ⁻²	>300	>300		
	10 ⁻³	67	53		
2.00 %	10 ⁰	>300	>300	3.61	4.88
	10 ⁻¹	43	39		



3.00 %	10^{-2}	< 14	< 14	3.22	5.27
	10^{-3}	< 14	< 14		
	10^0	210	189		
	10^{-1}	17	16		
	10^{-2}	< 14	< 14		
	10^{-3}	< 14	< 14		

2. Contact time: 15 min

Dilution: 2 %

Dilution selected by the laboratory: 1 %, 3 %

Interfering substances: beef albumin (0.3 g/l)

Temperature: 20 °C

Mycobacterium terrae ATTC 15755

Testing of experimental conditions (A)			Validation of method (C)		
Vc ₁	105	M = 101.5	Vc ₁	75	M = 81
Vc ₂	98		Vc ₂	87	
Average A ≥ 0,5 x Average Nv ₀ X Yes No			Average C ≥ 0,5 x Average Nv ₀ X Yes No		

Product concentration (%)	Dilution	V _{c1}	V _{c2}	LgN _a	Reduction (1gR)
1.00 %	10^0	>300	>300	5.31	3.19
	10^{-1}	>300	>300		
	10^{-2}	244	251		
	10^{-3}	23	18		
2.00 %	10^0	310	277	3.46	5.04
	10^{-1}	28	30		
	10^{-2}	< 14	< 14		
	10^{-3}	< 14	< 14		
3.00 %	10^0	182	166	3.24	5.25
	10^{-1}	15	< 14		
	10^{-2}	< 14	< 14		
	10^{-3}	< 14	< 14		

Examination report № 924/23.07.2012

Note:

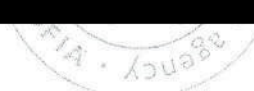
V_c – quantity of colonies, listed on the sign

N – quantity of UFC/ml of the bacterial suspension for testing

N_v – quantity UFC/ml of the bacterial suspension for validation

N_a – quantity UFC/ml in the tested mixture

R – decrease of quantity of living cells



INTERPRETATION:

Examination results are located in the tables.

In correspondence with SR EN 14348:2005 the tested product **OXISEPT**, batch 38, diluted 2 %, at 10 min and respectively 15 min, at 20 °C in clean conditions (beef albumin (0.3 g/l)) using the method of dilution-neutralization has decreased the quantity of living cells of the *Mycobacterium avium* and *Mycobacterium terrae* reference strains, proving a reduction of minimum 1g 4.

CONCLUSIONS:

In correspondence with SR EN 14348:2005, batch 38 of product **OXISEPT** – diluted 2 %, represents **mycobactericidal action*** at 10 min and 15 min, at 20 °C under clean conditions (beef albumin (0.3 g/l)) regarding the *Mycobacterium avium* and *Mycobacterium terrae* reference strains.

- Mycobactericide action – ability of the product to inhibit the growth of microbacteria under certain conditions.

Note: Examination was performed observing the active European standards.
The present bulletin was issued in 2 (two) copies.

Analyst:
Bch. Dumitru Tatiana
Signature: *illegible*

Head of laboratory:
Biologist Gianina Croc
Signature: *illegible*

Stamp: S.C. UNILAB Srl

Date: 02.02.2009

End

I, the undersigned Bojidar Dimitrov Draganov, certify hereby that this is a full, true and correct translation from Bulgarian into English language of the attached document. The translation consists of 6 pages.

Translated by:
Bojidar Dimitrov Draganov





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INCERCARE



SR EN ISO/CEI 17025:2005
CERTIFICAT DE ACREDITARE
nr. LI 829/2010

RAPORT DE INCERCARE

Nr. 924 / 23.07.2012

a. Identificarea produsului

Numele produsului:
Numar lot:
Data expirare
Substante active si concentratii

Producator:

Conditii de depozitare:
Diluant recomandat de producator:
Numar comanda analiza/data:
Data primirii produsului:

OXISEPT

38

03.2013

perborat de sodiu 50%
taed 25%

SC BORERO COMSERV SRL

Str. Carpenului, Nr. 1, Brasov
zone ferite de razele solare

119 / 16.05.2012

17.05.2012

b. Metoda de testare

Metoda de testare
Neutralizantul:

dilutie-neutralizare
l cysteina 1.5%

c. Conditii experimentale

Perioada de testare:
Diluantul produsului utilizat in cursul testarii:
Concentratii ale produsului:

30.05.2012-13.07.2012

apa dura

2 % (dilutie solicitata)

1%, 3 % (dilutii aleasa de laborator)

pulbere de culoare verzui

t = 10 min ± 10 s; t = 15 min ± 10 s

20°C ± 1°C

albumina bovina (0.3 g/l)

37°C ± 1°C

Mycobacterium avium ATCC 15769

Mycobacterium terrae ATCC 15755

SR EN 14348:2005 "Antiseptice si dezinfectante chimice. Testarea cantitativa a suspensiei pentru evaluarea activitatii micobactericide a dezinfectantelor chimice de uz medical, inclusiv a dezinfectantelor pentru instrumentar. Metode de testare si cerinte (faza 2, etapa 1) " (PSL-MIC-05)

Aspectul produsului :
Timp de contact:
Temperatura de testare
Substante interferente
Temperatura de incubare:
Tulpini test

Metoda

este valabil numai in original (inte

REZULTATELE TESTARII

I. Mycobacterium avium

Suspensia bacteriana (N si N _o)	N	Vc ₁	Vc ₂	N = $31 \times 10^8 = \lg N = 9.49$ N _o = $\lg 8.49$ 8.17 ≤ N _o ≤ 8.70	Nu
	10 ⁻⁷	320	298	X Da	
	10 ⁻⁸	31	25		

Suspensia de validare (N _o)	Vc ₁	Vc ₂	M	30 ≤ Media N _o ≤ 160	Nu
	123	152	137.5	X Da	

II. Mycobacterium terrae

Suspensia bacteriana (N si N _o)	N	Vc ₁	Vc ₂	N = $317 \times 10^7 = \lg N = 9.50$ N _o = $\lg 8.50$ 8.17 ≤ N _o ≤ 8.70	Nu
	10 ⁻⁷	299	334	X Da	
	10 ⁻⁸	30	34		

Suspensia de validare (N _o)	Vc ₁	Vc ₂	M	30 ≤ Media N _o ≤ 160	Nu
	100	83	91.5	X Da	

1. Timp de contact: 10 min.

Dilutie: 2%

Dilutii alese de laborator: 1%, 3%

Substanta de interferenta: albumina bovina (0.3 g/l)

Temperatura: 20°C

Mycobacterium avium ATTC 15769

Controlul conditiilor experimentale (A)			Controlul neutralizantului (B)			Validarea metodei (C)		
V _{c1}	88	M = 90.5	V _{c1}	69	M = 73	V _{c1}	61	M = 66.5
V _{c2}	93		V _{c2}	77		V _{c2}	72	
Media A $\geq 0.5 \times$ Media N _{so}			Media B $\geq 0.5 \times$ Media N _{so}			Media C $\geq 0.5 \times$ Media N _{so}		
X Da	Nu		X Da	Nu		X Da	Nu	

Concentratia produsului (%)	Dilutia	V _{c1}	V _{c2}	Lg N _s	Reductia (lg R)
1.00%	10 ⁰	>300	>300	6.05	2.44
	10 ⁻¹	>300	>300		
	10 ⁻²	>300	>300		
	10 ⁻³	123	100		
2.00%	10 ⁰	>300	>300	4.30	4.19
	10 ⁻¹	213	196		
	10 ⁻²	25	15		
	10 ⁻³	<14	<14		
3.00%	10 ⁰	>300	>300	4.03	4.46
	10 ⁻¹	116	100		
	10 ⁻²	<14	<14		
	10 ⁻³	<14	<14		

2. Timp de contact solicitat : 10 min.

Dilutie: 2%

Dilutii alese de laborator: 1%, 3%

Substanta de interferenta: albumina bovina (0.3 g/l)

Temperatura: 20°C

Mycobacterium terrae ATCC 15755

Controlul conditiilor experimentale (A)			Controlul neutralizantului (B)			Validarea metodei (C)		
V_{e1}	74	$M = 82.5$	V_{e1}	59	$M = 65$	V_{e1}	50	$M = 58$
V_{e2}	88		V_{e2}	71		V_{e2}	66	
Media $A \geq 0.5 \times \text{Media } N_{50}$			Media $B \geq 0.5 \times \text{Media } N_{50}$			Media $C \geq 0.5 \times \text{Media } N_{50}$		
X Da	Nu		X Da	Nu		X Da	Nu	

Concentratia produsului (%)	Dilutia	V_{e1}	V_{e2}	Lg N_a	Reductia (lg R)
1.00%	10^0	>300	>300	5.55	2.95
	10^{-1}	>300	>300		
	10^{-2}	316	329		
	10^{-3}	33	38		
2.00%	10^0	>300	>300	4.26	4.24
	10^{-1}	199	169		
	10^{-2}	21	15		
	10^{-3}	<14	<14		
3.00%	10^0	>300	>300	3.94	4.56
	10^{-1}	98	78		
	10^{-2}	<14	<14		
	10^{-3}	<14	<14		

3. Timp de contact: 15 min.

Dilutie: 2%

Dilutii alese de laborator: 1%, 3%

Substanta de interferenta: albumina bovina (0.3 g/l)

Temperatura: 20°C

Mycobacterium avium ATTC 15769

Controlul conditiilor experimentale (A)		Validarea metodei (C)	
V_{c1}	70	V_{c1}	75
V_{c2}	82	V_{c2}	65
Media $A \geq 0,5 \times \text{Media } N_{v0}$		Media $C \geq 0,5 \times \text{Media } N_{c0}$	
X Da	Nu	X Da	Nu

Concentratia produsului (%)	Dilutia	V_{c1}	V_{c2}	Lg N_a	Reductia (lg R)
1.00%	10^0	>300	>300	5.78	2.71
	10^{-1}	>300	>300		
	10^{-2}	>300	>300		
	10^{-3}	67	53		
2.00%	10^0	>300	>300	3.61	4.88
	10^{-1}	43	39		
	10^{-2}	<14	<14		
	10^{-3}	<14	<14		
3.00%	10^0	210	189	3.22	5.27
	10^{-1}	17	16		
	10^{-2}	<14	<14		
	10^{-3}	<14	<14		

2. Timp de contact solicitat : 15 min.

Dilutie: 2%

Dilutii alese de laborator: 1%, 3%

Substanta de interferenta: albumina bovina (0.3 g/l)

Temperatura: 20°C

Mycobacterium terrae ATCC 15755

Controlul conditiilor experimentale (A)			Validarea metodei (C)		
V_{c1}	105	$M = 101.5$	V_{c1}	75	$M = 81$
V_{c2}	98		V_{c2}	87	
Media $A \geq 0.5 \times \text{Media } N_{50}$			Media $C \geq 0.5 \times \text{Media } N_{50}$		
X Da		Nu	X Da		Nu

Concentratia produsului (%)	Dilutia	V_{c1}	V_{c2}	Lg N_a	Reductia (lg R)
1.00%	10^0	>300	>300	5.31	3.19
	10^{-1}	>300	>300		
	10^{-2}	244	251		
	10^{-3}	23	18		
2.00%	10^0	310	277	3.46	5.04
	10^{-1}	28	30		
	10^{-2}	<14	<14		
	10^{-3}	<14	<14		
3.00%	10^0	182	166	3.24	5.25
	10^{-1}	15	<14		
	10^{-2}	<14	<14		
	10^{-3}	<14	<14		

Raport incercare nr. 924 / 23.07.2012

Nota:

V_c – numarul de colonii numarate pe placuta
N – numarul UFC/ml ale suspensiei bacteriene de testare
N₁ – numar UFC/ml ale suspensiei bacteriene de validare
N₂ – numarul UFC/ml in amestecul de testare
R – reducere a numarului de celule viabile

INTERPRETARE:

Rezultatele testului se regasesc in tabele.

Conform standardului european SR EN 14348:2005, produsul OXISEPT testat, lot. 38, diluat 2%, in 10 min si respectiv 15 min, la 20°C, in conditii de curatenie (albumina bovina (0.3 g/l)), prin metoda dilutie-neutralizare a scazut numarul de celule viabile ale tulpinilor de referinta *Mycobacterium avium* si *Mycobacterium terrae*, dovedind o reductie de cel putin lg 4.

CONCLUZII:

Conform SR EN 14348:2005, lotul 38 al produsului OXISEPT – diluat 2%, prezinta o activitate micobactericida*, in 10 min si 15 min, la 20°C, in conditii de curatenie (albumina bovina (0.3 g/l)) fata de tulpinile de referinta *Mycobacterium avium* si *Mycobacterium terrae*.

* activitate micobactericida – capabilitatea produsului de a inhiba cresterea micobacteriilor in conditiile definite

Obs. Analizele au fost efectuate respectand standardele europene in vigoare.
Prezentul buletin s-a emis in 2 (doua) exemplare

Analist,

atiana

Starsit

Unitab F.G-R.I

Pagina 7
Ed.1-Rev.0

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