

Translation from Bulgarian language

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

S.C. UNILAB srl
Calea Bucurestilor, № 305, Building A16, Otopeni, Ilfov
UIC: RO 14159236; J23/3712/2008
Account: RO04 RNCB 0076 0294 1110 0001 opened in BCR
Tel.: 031 822 03 06; Fax: 031 817 3667
www.unilab.ro; email: office@unilab.ro

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

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	$N = 31 \times 10^8 = 1g N = 9.49$ $N_0 = 1g 8.49$ $8.17 \leq N_0 \leq 8.70$ 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	$N = 317 \times 10^7 = 1g N = 9.50$ $N_0 = 1g 8.50$ $8.17 \leq N_0 \leq 8.70$ X Yes No
	10 ⁻⁷	299	334	
	10 ⁻⁸	30	34	



Suspension to validate (N _{v0})	V _{c1}	V _{c2}	M	30 ≤ Average N _{v0} ≤ 160 X Yes No
	100	83	91.5	

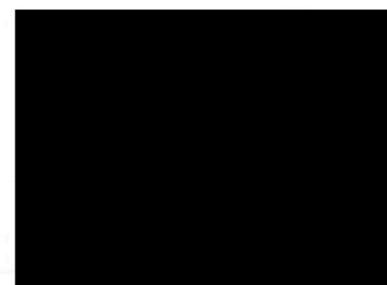
Examination report № 924/23.07.2012

- 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)		
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	
Average A ≥ 0,5 x Average N _{v0} X Yes No			Average B ≥ 0,5 x Average N _{v0} X Yes No			Average C ≥ 0,5 x Average N _{v0} X Yes No		

Product concentration (%)	Dilution	V _{c1}	V _{c2}	LgN _a	Reduction (lgR)
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		

- 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 N _{v0} X Yes No			Average B ≥ 0,5 x Average N _{v0} X Yes No			Average C ≥ 0,5 x Average N _{v0} 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 N _{v0} X Yes No			Average C ≥ 0,5 x Average N _{v0} 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)		
V _{c1}	105	M = 101.5	V _{c1}	75	M = 81
V _{c2}	98		V _{c2}	87	
Average A ≥ 0,5 x Average N _{v0} X Yes No			Average C ≥ 0,5 x Average N _{v0} X Yes No		

Product concentration (%)	Dilution	V _{c1}	V _{c2}	LgN _a	Reduction (lgR)
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:

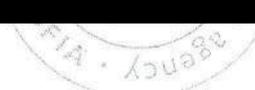
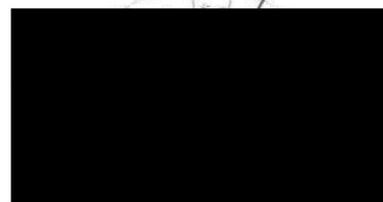
V_c – quantity of colonies, listed on the sign

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





S.C. UNILAB srl

Calea Bucurestilor, nr 305, Imobil A16, Otopeni, Ilfov
CUI: RO14159236; J23/3712/2008
Cont: RO04 RNCB 0076 0294 1110 0001 deschis la BCR
tel: 031 822 03 06; Fax 031 817 36 67
www.unilab.ro; email: office@unilab.ro

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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:	OXISEPT
Numar lot:	38
Data expirare	03.2013
Substante active si concentratii	perborat de sodiu 50% taed 25%
Producator:	SC BORERO COMSERV SRL Str. Carpenului, Nr. 1, Brasov zone ferite de razele solare
Conditii de depozitare:	-
Diluant recomandat de producator:	-
Numar comanda analiza/data:	119 / 16.05.2012
Data primirii produsului:	17.05.2012

b. Metoda de testare

Metoda de testare	dilutie-neutralizare
Neutralizantul:	l cysteina 1.5%

c. Conditii experimentale

Perioada de testare:	30.05.2012-13.07.2012
Diluantul produsului utilizat in cursul testarii:	apa dura
Concentratii ale produsului:	2 % (dilutie solicitata) 1%, 3 % (dilutii aleasa de laborator)
Aspectul produsului :	pulbere de culoare verzui
Timp de contact:	t = 10 min ± 10 s; t = 15 min ± 10 s
Temperatura de testare	20°C ± 1° C
Substante interferente	albumina bovina (0.3 g/l)
Temperatura de incubare:	37°C ± 1° C
Tulpini test	<i>Mycobacterium avium</i> ATCC 15769 <i>Mycobacterium terrae</i> ATCC 15755

Metoda

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)

este valabil numai in original (inte

REZULTATELE TESTARII

I. Mycobacterium avium

Suspensia bacteriana (N si N ₀)	N	Vc ₁	Vc ₂	Nu
	10 ⁻⁷	320	298	$N = 31 \times 10^8 = \lg N = 9.49$ $N_0 = \lg 8.49$ $8.17 \leq N_0 \leq 8.70$
	10 ⁻⁸	31	25	

Suspensia de validare (N ₉₀)	Vc ₁	Vc ₂	Nu
	123	152	$30 \leq \text{Media } N_{90} \leq 160$ X Da Nu

II. Mycobacterium terrae

Suspensia bacteriana (N si N ₀)	N	Vc ₁	Vc ₂	Nu
	10 ⁻⁷	299	334	$N = 317 \times 10^7 = \lg N = 9.50$ $N_0 = \lg 8.50$ $8.17 \leq N_0 \leq 8.70$
	10 ⁻⁸	30	34	

Suspensia de validare (N ₉₀)	Vc ₁	Vc ₂	Nu
	100	83	$30 \leq \text{Media } N_{90} \leq 160$ X Da Nu

Raport incercare nr. 524 / 23.07.2012

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 _{e1}	88 M = 90.5	V _{e1}	69 M = 73	V _{e1}	61 M = 66.5
V _{e2}	93	V _{e2}	77	V _{e2}	72
Media A ≥ 0.5 x Media N ₅₀		Media B ≥ 0.5 x Media N ₅₀		Media C ≥ 0.5 x Media N ₅₀	
X Da	Nu	X Da	Nu	X Da	Nu

Concentratia produsului (%)	Dilutia	V _{e1}	V _{e2}	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		

Raport incercare nr. 924 / 23.07.2012

2. Timp de contact solicitat : 10 min.

Dilutie: 2%

Dilutiile 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	V_{e1}	59	V_{e1}	50
V_{e2}	88	V_{e2}	71	V_{e2}	66
Media A $\geq 0,5 \times$ Media N_{50}		Media B $\geq 0,5 \times$ Media N_{50}		Media C $\geq 0,5 \times$ Media N_{50}	
X Da	Nu	X Da	Nu	X Da	Nu
	M = 82.5		M = 65		M = 58

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		

Raport incercare nr. 924 / 23.07.2012

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 ATCC 15769

Controlul conditiilor experimentale (A)		Validarea metodei (C)	
V_{e1}	70 M = 76	V_{e1}	75 M = 70
V_{e2}	82	V_{e2}	65
Media $A \geq 0,5 \times$ Media N_{50}		Media $C \geq 0,5 \times$ Media N_{50}	
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	5.78	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		

Raport inregistrare nr. 924 / 23.07.2012

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 _{e1}	M = 101.5	V _{e1}	M = 81
105		75	
98		87	
Media A ≥ 0.5 x Media N ₅₀		Media C ≥ 0.5 x Media N ₅₀	
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	5.31	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 puțin 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,

[Redacted] atiana

Starsit

