



EVS-EN 14561:2006 OÜ BALTIACHEMI LABORATORY Tel.. +372 6214 694

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Quantitative carrier test for the evaluation of bactericidal activity in the medical area (phase 2, step 2)

1. General information and material

1.1 Client:
Date of order:

1.2 Identification of sample Name of the product:

Batch number:

Manufacturer:

Date of delivery:

Storage conditions:

Apperance of the product

Recommended diluent:

Microbiologist

Ljudmila Shljapnikova Biol.Ph.D. Head of the Laboratory

TEST REPORT no 386

Medi-Sept Sp. z o.o., Konopnica 159 c, 21-030 Motycz, Poland 2018/06/04

VIRUTON PULVER 180222_5

Medi-Sept Sp. z.o.o. 2018/06/11

room temperature and darkness

white powder

water

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Active substance:

Test conditions Test period:

Date of test:

Product test concentrations:

Diluent:

Test temperature: Exposure time:

Organic load:

Test organisms: Neutralizer:

44 % Sodium percarbonate, 26 % TEAD

2018/06/21 - 2018/06/282018/06/21, 2018/06/26

hard water (45°C)

for clean conditions (bovine albumine 0,3 g/l) $19,5 \pm 0,5$ °C

Staphylococcus aureus ATCC 6538, Enterococcus hirae ATCC 10541, Polysorbate 80, 30 g/l; Sodium thiosulphate, 5 g/l; Lecithin, 3 g/ for dirty conditions (bovine albumine 3,0 g/l and sheep erythrocytes 3 ml/l) Pseudomonas aeruginosa ATCC 15442

2. Methods

2.1. Test method and its validation:

3. Results

4. Conclusion

dilution neutralisation

see annex

in carrier test in 30 min at 20 °C under clean and dirty conditions for strain Staphylococcus aureus ATCC 6538, Enterococcus hirae ATCC 10541, In accordance with EN 14561:2006, product VIRUTON PULVER (batch number 180222_5) with concentration 0,5 % possesses bactericidal activity Pseudomonas aeruginosa ATCC 15442. The product VIRUTON PULVER demonstrates at least a 5 lg reduction.

Total 9 pages Annex on 7 pages

Maardu, 2018/07/16

Ljudmila Shljapnikova Biol.Ph.D. Microbiologist

Head of the Laboratory





VALIDATION AND CONTROLS

Test organisms	V SI Di	Validation suspension Nv Dilution step -1	on on tep	Ex c	Experimental conditions control A Dilution step	ıtal ıs	Neut D	Neutralizer cont B Dilution step	control	Meth Dil	Method validation C 0,5 % Dilution step	lation
	Vc1	Vc2	×ı	Vc1	Vc2	×ı	Vc1	Vc2	×ı	Vc1	Vc2	×ı
Staphylococcus aureus ATCC 6538	66	52	59	48	50	49	38	47	43	39	35	37
Pseudomonas aeruginosa ATCC 15442	95	112	104	88	93	91	69	80	75	75	79	77
Enterococcus hirae ATCC 10541	71	64	68	60	57	59	67	69	68	59	71	65





TEST SUSPENSIONS

Test organism	Dilution step	Vc1	Vc2	Z
Staphylococcus aureus ATCC 6538	-7	>300	>300	$N = 5.0 \times 10.9 = Ig.9.7$
	-⊗	41	59	
Pseudomonas aeruginosa ATCC 15442	-7	>300	>300	$N= 4.2 \times 10.9 = lg.9,62$
	.∞	48	36	
Enterococcus hirae ATCC 10541	-7	>300	>300	$N=3.2 \times 10.9 = 1g.9.5$
		25	39	





Annex 3

WATER CONTROL

			Nw	Water control		
	Enterococcus hirae ATCC 10541		Pseudomonas aeruginosa ATCC 15442		Staphylococcus aureus ATCC 6538	Test organisms
-5	-4	-5	-4	-5	-4	Dilution step
21	>200	40	>300	38	>300	Vc1
26	>200	29	300	55	>300	Vc2
Ig Nw 7,37	Nw 2,35 x 10 7	lg Nw 7,54	Nw 3,45 x 10 7		lg Nw 7,67	Nw 4.65 x 10 7





TEST 1

	Staphylococcus aureus ATCC 6538	Test organism		
Dirty	Clean	Conditions		
-1 -2	-1 -2 -3	Dilution step		
		Vc1		
		Vc2		
<140	<140			
<2,15	<2,15	lg Na		
>5,52	>5,52	lg R		
30 min	30 min	Contact time		

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TEST 2

									_
			A1CC 15442	Pseudomonas aeruginosa				Test organism	
	Dirty				Clean	Common de la la		Conditions	
-5 2	5 -1	1	t	-2	1		-	Dilution	
0	0	0	0	0	0	0		Vc1	
0 0 0			0	0	0	0		Vc2	
<140				<140				Na x 10	
<2,15			<2,15				lg Na		
>5,39			>5,39				lg R		
	30 min			O TITLL	30 min			Contact time	



TEST 3

Test organism	Conditions	Dilution step	Vc1	Vc2	Na x 10	lg Na	lg R	Contact time
		_	0	0				
:	Clean	1	0	0	<140	< 2.15	> 5.22	30 min
Enterococcus hirae		-2	0	0		,	, , , , , , , , , , , , , , , , , , ,	C C ILLIA
A1CC 10541		చ	0	0				
		_	0	0				
	Dirty	1	0	0	<140	< 2.15	> 5.22	30 min
		-2	0	0			9	00 111111
		-3	0	0				

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pniko	15
OVA	

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$$N = \frac{C}{(n1 + 0.1 \text{ n2}) \times 10 - 7}$$

$$Na = c \times 10 / n$$

$$R = IgNw - IgNa$$

N – is the number of colonies for 1 ml test suspension Vc1, Vc2 - is the is number of colonies for 1 ml sample n – is the number of Vc-values taken into account R – reduction

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