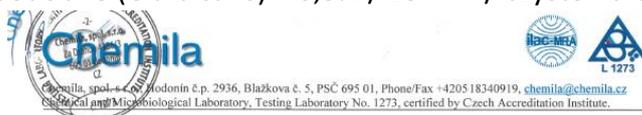


1. EN 13727 Bakterie – 0,5% / 15 min / czyste i brudne
2. EN 13624 Grzyby drożdżopodobne (C.albicans) – 0,5% / 15 min / czyste i brudne



Copy No.: 1
Issue No.: 2

Test report No. D145/2013

DETERMINATION OF BACTERICIDAL (EN 13727) AND YEASTICIDAL (EN 13624) ACTIVITY OF THE PRODUCT **VIRUTON EXTRA**

Sample ID: D145/2013
Sample name: **Viruton Extra**
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Producer: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland

Page: 1
From pages: 10

Incoming date:
2.9.2013

Delivery date:
20.2.2014

Hodonín, 20.2.2014



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Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: D145/2013
Rep No: 145
Sample name: **Viruton Extra**
Sampled: by client
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz

Sampling date: 29.8.2013
Sample delivered: 2.9.2013
Testing date: 16.9. – 25.9.2013
Delivered amount: 0.5 l
Batch No: A-28-SIE-16
Page: 10

Interpretation:

Results of tests are in Tabs.

The tested product **Viruton Extra**, Batch No. A-28-SIE-16, in the concentration 0.5%, diluted in hard water, in the contact time 15 min under clean and dirty conditions and in the contact time 30 min under dirty conditions at temperature $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ by the dilution neutralization method **decreased** the number of alive microbes *Pseudomonas aeruginosa* ATCC 15442, *Staphylococcus aureus* ATCC 6538, *Enterococcus hirae* ATCC 10541 by at least 5 (lg) orders (EN 13727).

The tested product **Viruton Extra**, Batch No. A-28-SIE-16, in the concentration 0.5%, diluted in hard water, in the contact time 15 min under clean and dirty conditions and in the contact time 30 min under dirty conditions at temperature $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ by the dilution neutralization method **decreased** the number of alive microbes *Candida albicans* ATCC 10231 by at least 4 (lg) orders (EN 13624).

Conclusion:

The product **Viruton Extra** is capable of reducing the number of viable bacterial and vegetative yeast cells of the relevant organisms under defined conditions to the declared values, and consequently, may be called bactericidal and yeasticidal.

20.2.2014, Hodonín

Ing. Jana Štroblová Head of Laboratory



EVs-EN 13624:2019
 OÜ INTERFLO
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Quantitative suspension test for the evaluation of yeasticidal activity in the medical area (phase 2, step 1)

TEST REPORT no 675a

1. General information and material

Client: Medisept Sp. z o.o., Konopnica 159 c, 21-030 Motycz, Poland
 Date of order: 2021/05/14

2. Identification of sample

Name of the product: VIRUTON EXTRA
 Batch number: Lot: 10052021_128
 Manufacturer: Medisept Sp. Z.O.O.
 Date of delivery: 2021/05/14
 Storage conditions: room temperature and darkness
 Appearance of the product: clear colorless liquid
 Recommended diluent: water

Microbiologist
 Ljudmila Shljapnikova
 Ph.D.
 Head of the Laboratory



1

Active substance: 11,5 % - 1,3-Propanediamine,N-(3-aminopropyl)-N-dodecyl
 3,12 % - N,N-Didecyl-N-methyl-poly(oxyethyl) ammonium propionate
 1,25 % - Didecyldimethylammonium chloride

3. Test conditions

Test period: 2021/05/20 – 2021/05/31
 Date of test: 2021/05/20; 2021/05/27
 Product test concentrations: 0,5 %; 1, %; 1,5 %
 Exposure time: 15 min
 Test temperature: 19,5 ± 0,5°C
 Temperature of incubation: 29,5±0.5°C
 Organic load: bovine albumine 3,0 g/l and sheep erythrocytes 3,0 ml/l for high-level soiling
 Neutralizer: Polysorbate 80, 30 g/l; Sodium dodecyl sulphate, 4 g/l; Lecithin, 3 g/l
 Test organisms: Candida albicans ATCC 10231, Aspergillus brasiliensis ATCC 16404

4. Methods

Test method and its validation: dilution neutralisation

5. Results

see annex

6. Conclusion

In accordance with EN 13624:2019, product VIRUTON EXTRA (Lot:10052021_128) with concentration 0,5 % possesses yeasticidal activity in suspension test in 15 min at 20 °C under dirty conditions for referenced strain Candida albicans ATCC 10231. The product VIRUTON EXTRA (Lot:10052021_128) demonstrates at least a 4 lg reduction.

In accordance with EN 13624:2019, product VIRUTON EXTRA (Lot:10052021_128) with concentration 1,5 % possesses fungicidal activity in suspension test in 60 min at 20 °C under dirty conditions for referenced strain Aspergillus brasiliensis ATCC 16404. The product VIRUTON EXTRA (Lot:10052021_128) demonstrates at least a 4 lg reduction.

The conclusion is true only for the studied sample of the product VIRUTON EXTRA (batch number Lot:10052021_128).

Total 7 pages

Annex on 5 pages

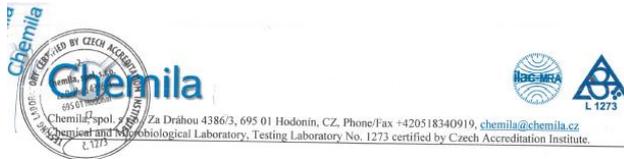
Tallinn, 2021/05/31

Microbiologist
 Ljudmila Shljapnikova
 Ph.D.
 Head of the Laboratory



2

4. EN 14561 Bakterie – 0,5% / 15 min / brudne
5. EN 14562 Grzyby drożdżopodobne (*C.albicans*) – 1%/ 15 min / brudne ; 0,5% / 30 min / brudne
6. EN 14563 Prątki (*M.terrae*, *M.avium*) – 0,5% / 30 min /
7. EN 14476 Wirus Polio – 0,5% / 30 min / czyste; 1% / 15 min / brudne.



Copy No.: 1
Issue No.: 1

Test report No. D167-2/2013

DETERMINATION OF BACTERICIDAL (EN 14561), FUNGICIDAL (EN 14562), MYCOBACTERICIDAL AND TUBERCULOCIDAL (EN 14563) ACTIVITY OF THE PRODUCT **VIRUTON EXTRA**
DETERMINATION OF VIRUCIDAL (EN 14476) ACTIVITY OF THE PRODUCT **VIRUTON EXTRA**

Sample ID: D167/2013
Sample name: **Viruton Extra**
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Producer: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Page: 1
From pages: 16

Incoming date:
8.11.2013

Delivery date:
25.4.2014

Hodonin, 25.4.2014



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Description: Testing the efficacy of chemical disinfectants and antiseptics

Sample ID: D167/2013
Rep No: 44
Sample name: **Viruton Extra**
Sampled: by client
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Sampling date: 6.11.2013
Sample delivered: 8.11.2013
Testing date: 27.1.2014-18.4.2014
Delivered amount: 250 ml
Batch No: A-29-PAZ-15
Page: 16

Interpretation:
Results of tests are in Tabs.

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, and the contact time 30 min and in the concentration 1%, diluted in hard water, and the contact time 15 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution-neutralization method **decreased** on carriers the number of alive microbes *Pseudomonas aeruginosa* ATCC 15442, *Staphylococcus aureus* ATCC 6538, *Enterococcus hirae* ATCC 10541 by at least 5 (lg) orders (EN 14561).

The tested product **Viruton Extra**, batch No. A-29-PAZ-15 in the concentration 0.5%, diluted in hard water, and the contact time 30 min and in the concentration 1%, diluted in hard water, and the contact time 15 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution-neutralization method **decreased** on carriers the number of alive microbes *Candida albicans* ATCC 10231 by at least 4 (lg) orders (EN 14562).

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentrations 0.5% and 1.0%, diluted in hard water, and the contact time 30 min and in the concentration 2%, diluted in hard water, and the contact time 15 min under dirty conditions at temperature 20 °C ± 1 °C by the dilution-neutralization method **decreased** on carriers the number of alive microbes *Mycobacterium avium* ATCC 15769 and *Mycobacterium terrae* ATCC 15755 by 4 (lg) orders (EN 14563).

According to EN 14476 the tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, and the contact time 30 min under clean conditions and in the concentrations 1.0% and 2.0%, diluted in hard water, and the contact time 15 min under clean and dirty conditions at temperature 20 °C ± 1 °C **proved** by the method of virus titration on monolayers of cells on microtitre plates to reduce the number of infectious *Poliovirus* type 1, LSc-2ab particles under defined conditions by 4 (lg) orders.

Conclusion:
The product **Viruton Extra** is capable of reducing the number of viable bacterial and vegetative yeast and mycobacterial cells of the relevant organism under defined conditions to the declared values, and consequently, may be called bactericidal and yeasticidal and mycobactericidal and tuberculocidal on carriers.
The product **Viruton Extra** is capable of reducing the number of infectious *Poliovirus* particles under defined conditions to the declared values, and consequently, may be called virucidal on *Poliovirus*.

25.4.2014, Hodonin

Ing. Jana Štířová, Head of Study



8. EN 14563 Prątki (M.terrae, M.avium) 1% / 15 min / czyste
9. EN 14348 Prątki (M.terrae, M.avium) 0,5% / 15 min / czyste



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Chemical and Microbiological Laboratory, Testing Laboratory No. 1273 certified by Czech Accreditation Institute.



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Issue No.: 1

Test report No. D167-4/2013

DETERMINATION OF MYCOBACTERICIDAL AND TUBERCULOCIDAL
(EN 14348, 14563) ACTIVITY OF THE PRODUCT VIRUTON EXTRA

Sample ID: D167/2013
Sample name: Viruton Extra
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Producer: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland

Page: 1
From pages: 9

Incoming date:
8.11.2013

Delivery date:
1.12.2014

Hodonin, 1.12.2014

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Zuzana Matušková, Head of Laboratory

Description: Testing the efficacy of chemical disinfectants and antiseptics

Sample ID: D167/2013
Rep No: 44
Sample name: Viruton Extra
Sampled: by client
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz

Sampling date: 6.11.2013
Sample delivered: 8.11.2013
Testing date: 16.7. – 6.8.2014
Delivered amount: 250 ml
Batch No: A-29-PAZ-15
Page: 9

Interpretation:

Results of tests are in Tabs.

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, in the contact time 15 min under clean conditions at temperature $20\text{ °C} \pm 1\text{ °C}$ by the dilution neutralization method decreased the number of alive microbes *Mycobacterium avium* ATCC 15769, *Mycobacterium terrae* ATCC 15755 by at least 4 (lg) orders (EN 14348).

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 1%, diluted in hard water, in the contact time 15 min under clean conditions at temperature $20\text{ °C} \pm 1\text{ °C}$ by the dilution-neutralization method decreased on carriers the number of alive microbes *Mycobacterium avium* ATCC 15769 and *Mycobacterium terrae* ATCC 15755 by 4 (lg) orders (EN 14563).

Conclusion:

The product **Viruton Extra** is capable of reducing the number of viable mycobacterial cells of the relevant organisms under defined conditions to the declared values and, consequently, may be called mycobactericidal and tuberculocidal.

The product **Viruton Extra** is capable of reducing the number of viable mycobacterial cells of the relevant organisms on carriers under defined conditions to the declared values and, consequently, may be called mycobactericidal and tuberculocidal on carriers.

1.12.2014, Hodonin

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Ing. Jana Šlitrová, Leader of Study

10. EN 14476 Virus Adeno 0,5% / 15 min / czyste; 0,5% / 30 min / brudne.



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Chemical and Microbiological Laboratory, Testing Laboratory No. 1273 certified by Czech Accreditation Institute.



Copy No.: 1
Issue No.: 1

Test report No. D167-3/2013

DETERMINATION OF VIRUCIDAL ACTIVITY (EN 14476) OF THE
PRODUCT **VIRUTON EXTRA** AGAINST ADENOVIRUS

Sample ID: D167/2013
Sample name: **Viruton Extra**
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Producer: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland

Page: 1
From pages: 4

Incoming date:
8.11.2013

Delivery date:
14.10.2014

Hodonín, 14.10.2014



Zuzana Váňková, Head of Laboratory

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Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: D167/2013
Rep No: 114
Sample name: **Viruton Extra**
Sampled: by client
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz

Sampling date: 6.11.2013
Sample delivered: 8.11.2013
Testing date: 23.7. – 30.7.2014
Delivered amount: 250 ml
Batch No: A-29-PAZ-15
Page: 4

Interpretation:

Results of tests are in Tabs.
The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in concentrations 0.5% and 1%, diluted in hard water, and the contact time 15 min under clean conditions and in the concentration 0.5%, diluted in hard water, and the contact time 30 min under clean and dirty conditions at temperature $20\text{ °C} \pm 1\text{ °C}$ proved by the method of virus titration on monolayers of cells on microtiter plates to reduce the number of infectious *Adenovirus* type 5, strain Adenoid 75, ATCC VR-5 under defined conditions by at least 4 (lg) orders (EN 14476).

Conclusion:

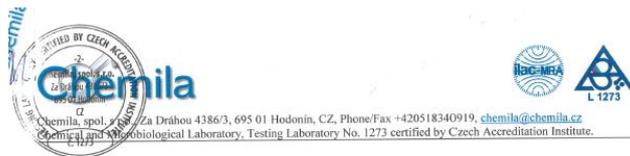
The product **Viruton Extra** is capable of reducing the number of infectious *Adenovirus* particles under defined conditions to the declared values, and consequently, can be called virucidal on *Adenovirus*.

14.10.2014, Hodonín

Ing. Jana Šimbová, Leader of Study



11. EN 14476 Wirusy ostonkowe 0,5% / 15 min / czyste i brudne.
12. EN 14467 Wirus BVDV 0,5% / 15 min / czyste i brudne.
13. EN 14348 Prątki (M.avium, M.terrae) 0,5% / 30 min / brudne; 1% / 15 min / czyste i brudne.



Copy No.: 1
Issue No.: 1

Test report No. D167/2013

DETERMINATION OF MYCOBACTERICIDAL AND TUBERCULOCIDAL (EN 14348) ACTIVITY OF THE PRODUCT **VIRUTON EXTRA**
DETERMINATION OF VIRUCIDAL ACTIVITY (EN 14476+A1) OF THE PRODUCT **VIRUTON EXTRA** AGAINST BVDV AND VACCINIA VIRUS

Sample ID: D167/2013
Sample name: **Viruton Extra**
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Producer: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz, Poland

Page: 1
From pages: 10

Incoming date:
8.11.2013

Delivery date:
20.2.2014

Hodonin, 20.2.2014



Description: *Testing the efficacy of chemical disinfectants and antiseptics*

Sample ID: D167/2013
Rep No: 174
Sample name: **Viruton Extra**
Sampled: by client
Sampling point: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz
Client: Medi-Sept Sp. z o.o., Konopnica 159c, 210 30 Motycz

Sampling date: 6.11.2013
Sample delivered: 8.11.2013
Testing date: 15.11.2013-2.1.2014
Delivered amount: 250 ml
Batch No: A-29-PAZ-15
Page: 10

Interpretation:

Results of tests are in Tabs.

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, and the contact time 30 min under dirty conditions and in the concentration 1%, diluted in hard water, and the contact time 15 min under clean and dirty conditions at temperature $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ by the dilution-neutralization method **decreased** the number of alive microbes *Mycobacterium avium* ATCC 15769 and *Mycobacterium terrae* ATCC 15755 by 4 (lg) orders (EN 14348).

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, and the contact time 15 min under clean and dirty conditions at temperature $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ **proved** by the method of virus titration on monolayers of cells on microtiter plates to reduce the number of infectious *Vaccinia virus* strain Elstree CAMP V-160 particles under defined conditions by at least 4 (lg) orders (EN 14476+A1).

The tested product **Viruton Extra**, batch No. A-29-PAZ-15, in the concentration 0.5%, diluted in hard water, and the contact time 15 min under clean and dirty conditions at temperature $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ **proved** by the method of virus titration on monolayers of cells on microtiter plates to reduce the number of infectious *BVDV* strain NADL ATCC-VR-534 particles under defined conditions by at least 4 (lg) orders (EN 14476+A1).

Conclusion:

The product **Viruton Extra** is capable of reducing the number of viable mycobacterial cells of the relevant organism under defined conditions to the declared values, and consequently, may be called mycobactericidal and tuberculocidal.

The product **Viruton Extra** is capable of reducing the number of infectious *Vaccinia virus* strain Elstree CAMP V-160 particles under defined conditions to the declared values, and consequently, can be called virucidal on *Vaccinia virus*. The product **Viruton Extra** is capable of reducing the number of infectious *BVDV* strain NADL ATCC-VR-534 particles under defined conditions to the declared values, and consequently, can be called virucidal on *BVDV*.

20.2.2014, Hodonin

