

National Institute of Public Health  
Centre of Epidemiology and Microbiology  
National Reference Laboratory for Disinfection and Sterilization  
Šrobárova 49/48  
100 00 Praha 10  
Phone 26708 2284

**Determination fungicidal activity**  
**Desam Effekt+ /desam effect/ (sample no. 2743)**  
**According to the EN 13697, conditions for products used in**  
**the Medical area**

**Summary Report**

Laboratory expertise no. 190166/2019

**Fungicidal and Levurocidal (yeasticidal) activity**

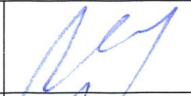
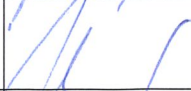
MUDr. Věra Melicherčíková, CSc.

Ing. Jan Urban, Ph.D.

Mgr. Petra Uttlová

Technical support: Marcela Macháčková

Erika Jirsová

NRL for Disinfection and Sterilization	MUDr. V. Melicherčíková, CSc.	
Centre for Epidemiology and Microbiology	MUDr. Barbora Macková	

Státní zdravotní ústav  
Laboratoře CEM  
NRL pro dezinfekci a sterilizaci  
Šrobárova 48, 100 42 Praha 10  
IČ: 75010330 TEL.: 26708 2284

## Characteristics of presented sample

**Contracting authority:** Schulke CZ, s.r.o.,  
Lidická 445, 735 81 Bohumín

**Manufacturer:** Schulke CZ, s.r.o.,  
Lidická 445, 735 81 Bohumín

**Product description:** (according to manufacturer's specification)  
Product Desam Effekt+ /desam effect/ (sample no. 2743) is Liquid, clear, colourless.

**Product composition:** Not indicated

**Use of product:** product of surface disinfection

**Documentation included:**

Not indicated

Subject of expertise was the interpretation of results of the fungicidal efficiency of the submitted samples in laboratory experiments.

## Interpretation of laboratory tests results

Product Desam effekt+ /desam effect/ (Laboratory sample No. 2743) demonstrated the levurocidal activity (According to the EN 13697) at the concentration 1 % for 15 minutes at temperatures ranging between  $18 \pm 1$  °C and  $25 \pm 1$  °C under clean (bovine albumin 0,3 g/l) and dirty (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l) conditions, for products used in the Medical area.

Product Desam effekt+ /desam effect/ (Laboratory sample No. 2743) demonstrated the fungicidal activity (According to the EN 13697) at the concentrations 1 % and 2 % for 60 minutes at temperatures ranging between  $18 \pm 1$  °C and  $25 \pm 1$  °C under clean (bovine albumin 0,3 g/l) and dirty (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l) conditions, for products used in the Medical area.

**Explanation:** According to Client, the product has 2 commercial names, namely „Desam effekt+“ and „Desam effect“.

The samples were not evaluated in terms of cleaning performance, corrosivity, toxicity, irritability and safety. This report applies only to the samples submitted and the conclusions drawn from this expertise can be applied to other products of the same

kind only if their composition, contents and properties completely match the samples under testing.

The presented test results relate only to the samples referred to in this protocol and are not intended to replace other official manufacturer's documentation.

The protocol can be reproduced only in complete form with the written consent of the testing laboratory.

**Determination fungicidal activity**  
**Desam Effekt+ /desam effect/ (sample no. 2743)**  
**according to the EN 13697, conditions for products used in**  
**the Medical area**

The microbicidal effectiveness of disinfectants is determined by the following methods:

Accredited methods

1. Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics according to the EN 13624 (SOP-NRL/DS-01, method J).
2. Quantitative non-porous surface test for the evaluation of fungicidal activity of chemical disinfectants according to the EN 13697 (SOP-NRL/DS-02, method G)

The test method used for evaluation of the fungicide (microscopic yeast and filamentous fungi) effectiveness of disinfectants are processed on the basis standards EN 14885 (EN 13624 and EN 13697). These are quantitative methods. These methods are accredited according to the EN ISO/IEC 17025:2005.

National Reference Laboratory for disinfection and sterilization is "testing laboratory no. 1206.4 accredited by Czech Accreditation Institute according to the standard EN ISO / IEC 17025:2005".

Results - accredited methods

More information you will find in the report of the outcome of laboratory test No. 794/2018 - Annex).

**The levurocidal (yeasticidal) activity for the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), determined for general purposes according to the EN 13624 standard (obligatory conditions) under clean and dirty conditions is:**

According to the EN 13624, the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), demonstrates the levurocidal (yeasticidal) activity in concentration 1 % for 15 minutes at 20 °C under clean (bovine albumin 0,3 g/l) and dirty (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l) conditions.

A reduction of microorganisms of 4 log was noticed. This reduction guarantees according EN 13624 levurocidal activity for products used in the Medical area.

The levurocidal (yeasticidal) aktivty was tested on test organism *Candida albicans*.

The fungicidal activity for the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), determined for general purposes according to the EN 13624 standard (obligatory conditions) under clean conditions is:

According to the EN 13624, the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), demonstrates the fungicidal activity in concentration 1 % for 30 and 60 minutes and in concentration 2 % for 15, 30 and 60 minutes at 20 °C under clean conditions (bovine albumin 0,3 ml/l).

A reduction of microorganisms of 4 log was noticed. This reduction guarantees according EN 13624 fungicidal activity for products used in the Medical area.

The fungicidal activity was tested on test organism *Aspergillus brasiliensis*.

The fungicidal activity for the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), determined for general purposes according to the EN 13624 standard (obligatory conditions) under dirty conditions is:

According to the EN 13624, the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), demonstrates the fungicidal activity in concentration 1 % for 60 minutes and in concentration 2 % for 30 and 60 minutes at 20 °C under dirty conditions (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l).

A reduction of microorganisms of 4 log was noticed. This reduction guarantees according EN 13624 fungicidal activity for products used in the Medical area.

The fungicidal activity was tested on test organism *Aspergillus brasiliensis*.

Explanation: According to Client, the product has 2 commercial names, namely „Desam effekt+“ and „Desam effect“.

The fungicidal (levurocidal) activity for the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), determined for general purposes according to the EN 13697 standard (obligatory conditions) under clean and dirty conditions is:

According to the EN 13697, the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), demonstrates the fungicidal (levurocidal) activity in concentration 1 % for 15 minutes at temperatures ranging between  $18 \pm 1$  °C and  $25 \pm 1$  °C under clean (bovine albumin 0,3 g/l) and dirty (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l) conditions.

A reduction of microorganisms of 3 log was noticed. This reduction guarantees according EN 13697 fungicidal (levurocidal) activity for products used in the Medical area.

The fungicidal (levurocidal) activity was tested on test organism *Candida albicans*.

The fungicidal activity for the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), determined for general purposes according to the EN 13697 standard (obligatory conditions) under clean and dirty conditions is:

According to the EN 13697, the product Desam effekt+ /desam effect/ (Laboratory sample No. 2743), demonstrates the fungicidal activity in concentrations 1 % and 2 % for 60 minutes at temperatures ranging between  $18 \pm 1$  °C and  $25 \pm 1$  °C under clean (bovine albumin 0,3 g/l) and dirty (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l) conditions.

A reduction of microorganisms of 3 log was noticed. This reduction guarantees according EN 13697 fungicidal activity for products used in the Medical area.

The fungicidal activity was tested on test organism *Aspergillus brasiliensis*.

Explanation: According to Client, the product has 2 commercial names, namely „Desam effekt+“ and „Desam effect“.

### **References:**

1. EN 13624:2014 – Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area - Test method and requirements (phase2, step 1)
2. EN 13697:2015 - Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas - Test method and requirements without mechanical action (phase 2, step 2)

**Státní zdravotní ústav**  
Laboratoře **CEM**  
NRL pro dezinfekci a sterilizaci  
Šrobárova 48, 100 42 Praha 10  
IC: 75010330 TEL.: 26708 2284