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**Determination fungicidal activity
of CHLORAMIX[®] DT (sample no. 2764)
according to the EN 13697, conditions for products used in
the Medical area**

Summary Report

Laboratory expertise no. **181855/2018**

Levurocidal activity

Fungicidal activity


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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 CHLORAMIX® DT (sample no. 2764) is white tablets.

Product composition (active substances): sodium dichloroisocyanurate, dihydrate
750g/kg (EC 220-767-7).

Use of product: CHLORAMIX® DT is suitable for disinfection of surfaces.

Documentation included:

Etiquette in the Czech language

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 CHLORAMIX® DT (Laboratory sample No. 2764) demonstrated the levorucidal activity (According to the EN 13697) in concentrations 1 tbl / 5 l and 10 l hard water for 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 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 CHLORAMIX® DT (Laboratory sample No. 2764) not demonstrated the fungicidal activity (According to the EN 13697) in concentrations 1 tbl / 5 l and 10 l hard water for 10 and 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 1 °C under clean conditions (bovine albumin 0,3 g/l), for products used in the Medical area.

Product CHLORAMIX® DT (Laboratory sample No. 2764) demonstrated the fungicidal activity (According to the EN 13697) in concentration 1 tbl / 1,5 l hard water for 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 1 °C under dirty conditions (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l), for products used in the Medical area.

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
of CHLORAMIX® DT (sample no. 2764)
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 based harmonized standards EN 14885 (EN 13624 and EN 13697). These are quantitative methods. The 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. 793/2018 - Annex).

The levurocidal activity for the product Chloramix DT (Laboratory sample No. 2764), 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 Chloramix DT (Laboratory sample No. 2764), demonstrates the levurocidal (yesticidal) activity in concentrations 1 tbl / 5 l and 10 l hard water 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 (yeastical) activity was tested on test organism *Candida albicans*.

The fungicidal activity for the product Chloramix DT (Laboratory sample No. 2764), determined for general purposes according to the EN 13624 standard (obligatory conditions) under clean conditions is:

According to the EN 13624, the product Chloramix DT (Laboratory sample No. 2764), demonstrates the fungicidal activity in concentration 1 tbl / 5 l hard water for 15 minutes at 20 °C under clean conditions (bovine albumin 0,3 g/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 Chloramix DT (Laboratory sample No. 2764), determined for general purposes according to the EN 13624 standard (obligatory conditions) under dirty conditions is:

According to the EN 13624, the product Chloramix DT (Laboratory sample No. 2764), demonstrates the fungicidal activity in concentration 1 tbl / 1,5 l and 5 l hard water for 15 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*.

The fungicidal (levurocidal) activity for the product Chloramix DT (Laboratory sample No. 2764), determined for general purposes according to the EN 13697 standard (obligatory conditions) under dirty conditions for products used in the Medical area is:

According to the EN 13697, the product Chloramix DT (Laboratory sample No. 2764), demonstrates the levurocidal (yeasticidal) activity in concentrations 1 tbl / 5 l and 10 l hard water for 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 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 (According to the EN 14885).

A reduction of microorganisms of 3 log was noticed. This reduction guarantees according EN 13697 fungicidal (levurocidal) activity for products used in food, industrial, domestic and institutional areas, with clean conditions for products used in the Medical area (According to the EN 14885).

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

The fungicidal activity for the product Chloramix DT (Laboratory sample No. 2764), determined for general purposes according to the EN 13697 standard (obligatory conditions) under clean conditions for products used in the Medical area is:

According to the EN 13697, the product Chloramix DT (Laboratory sample No. 2764), not demonstrates the fungicidal activity in concentrations 1 tbl / 5 l and 10 l hard water for 10 and 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 1 °C under clean conditions (bovine albumin 0,3 g/l), for products used in the Medical area (According to the EN 14885).

A not reduction of microorganisms of 3 log was noticed. This reduction guarantees according EN 13697 fungicidal activity for products used in food, industrial, domestic and institutional areas, with clean conditions for products used in the Medical area (According to the EN 14885).

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

The fungicidal activity for the product Chloramix DT (Laboratory sample No. 2764), determined for general purposes according to the EN 13697 standard (obligatory conditions) under dirty conditions for products used in the Medical area is:

According to the EN 13697, the product Chloramix DT (Laboratory sample No. 2764), demonstrates the fungicidal activity in concentration 1 tbl / 1,5 l hard water for 15 minutes at temperatures ranging between 18 ± 1 °C and 25 ± 1 °C under dirty conditions (bovine albumin 3,0 g/l plus erythrocytes 3,0 ml/l), for products used in the Medical area (According to the EN 14885).

A reduction of microorganisms of 3 log was noticed. This reduction guarantees according EN 13697 fungicidal activity for products used in food, industrial, domestic and institutional areas, with dirty conditions for products used in the Medical area (According to the EN 14885).

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

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)

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