Nordic Tersus
Laboratory

Test report No. 15519hd

EVALUATION OF FUNGICIDAL OR YEASTICIDAL ACTIVITY IN FOOD, INDUSTRIAL, DOMESTIC AND INSTITUTIONAL AREAS (EN 1650)

Name of the product: CHEMISEPT MED

Batch number: 196300919
Date of test report: 25/11/2019

Client, representative:
Chemi-Pharm Ltd.
Tänassilma tee 11
Tänassilma küla
Saku vald, 76406
ESTONIA

Digitally signed by Chirtoacă Iurie
Date: 2023.01.06 14:20:59 EET
Reason: MoldSign Signature
Location: Moldova

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Name of the product:	CHEMISEPT MED
Batch number:	196300919
Order number:	19040
Manufacturer:	Chemi-Pharm Ltd.
Client, representative:	Chemi-Pharm Ltd., Tänassilma tee 11, Tänassilma, 76406 Harju maakond, Estonia Maris Millner, +372-51-77-090
Date of delivery:	04.10.2019
Test material conditions:	No specific features, sample in the manufacturers tare
Storage conditions:	In room temperature, dark
Active substance – conc.:	Ethyl alcohol 72.5% w/w, isopropyl alcohol 7.5% w/w
Appearance of the product:	Transparent liquid
Test concentration:	80%; 50%; 10%
Contact time:	60 s
Interfering substance:	0.3 g/l bovine albumin = clean conditions; 3.0 g/l bovine albumin = dirty conditions
Rinsing liquid:	Tryptone 1 g/l + NaCl 9 g/l
Neutralizer:	-
Test organisms:	*Aspergillus brasiliensis* ATCC 16404
Testing method:	EVS-EN 1650:2019 Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.
Testing date:	25.10.2019 – 28.10.2019
Results:	look appendix 1-2

ACCREDITED LABORATORY. No L263. ISO/IEC 17025
NORDIC TERSUS LABORATORY OÜ
REPUBLIC OF ESTONIA

Nele Aas-Valleriani
Microbiologist
Date of test report: 25.11.2019

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Appendix 1

TEST RESULTS (suspension test)

EVS-EN 1650:2019; Phase 2, step 1;
Membrane filtration method;
Rinsing liquid: Tryptone 1 g/l + NaCl 9 g/l;
Test organism: *Aspergillus brasiliensis* ATCC 16404;
Test temperature: +20° C; Incubation temperature: +30 ± 1° C
Interfering substance: 0.3 g/l bovine albumin = clean conditions; 3.0 g/l bovine albumin = dirty conditions
Nordic Tersus Laboratory LLC.; Date of test: 25.10.2019
Responsible person: Nele Aas-Valleriani

Validation and controls

Clean and dirty conditions

Validation suspension N_{vo}			Experimental conditions (A)			Filtration control (B)			Method validation (C)		
V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$	V_{C1}	V_{C2}	$\bar{x}$
43	37	40	38	41	39.5	38	43	40.5	36	39	37.5
$30 \leq \bar{x}\ N_{vo} \leq 160$?yes X; no □			$\bar{x}$ A is $\geq 0.5\ \bar{x}\ N_{vo}$?yes X;no □			$\bar{x}$ B is $\geq 0.5\ \bar{x}\ N_{vo}$? yesX; no □			$\bar{x}$ C is $\geq 0.5\ \bar{x}\ N_{vo}$? yes X;no □		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 1.66 \times 10^7$; $\log N = 7.22$
N and N_0	10^{-5}	150	150	$N_0 = N/10$; $\log N_0 = 6.22$
	10^{-6}	27	23	$6.17 \leq \log N_0 \leq 6.70$; yesX; no □

Experimental results

Concentration of the product	Dilution step	V_{C1}	V_{C2}	Na (=x̄*10)	log Na	logR	Contact time	Conditions
10%	-	>165	>165	>1650	>3.22	<3.00	30 s	Clean
50%	-	>165	>165	>1650	>3.22	<3.00	30 s	Clean
80%	-	<14	<14	<140	<2.15	>4.07	30 s	Clean
10%	-	>165	>165	>1650	>3.22	<3.00	60 s	Clean
50%	-	>165	>165	>1650	>3.22	<3.00	60 s	Clean
80%	-	<14	<14	<140	<2.15	>4.07	60 s	Clean
10%	-	>165	>165	>1650	>3.22	<3.00	30 s	Dirty
50%	-	>165	>165	>1650	>3.22	<3.00	30 s	Dirty
80%	-	<14	<14	<140	<2.15	>4.07	30 s	Dirty
10%	-	>165	>165	>1650	>3.22	<3.00	60 s	Dirty
50%	-	>165	>165	>1650	>3.22	<3.00	60 s	Dirty
80%	-	<14	<14	<140	<2.15	>4.07	60 s	Dirty

Explanations:

V_C = count per ml (one plate or more)
x̄ = average of V_{C1} and V_{C2} (1. + 2. duplicate)
N = cfu/ml microbes in testsuspension
N_0 = cfu/ml at the start of the contact time (t=0)
N_{vo} = cfu/ml in the validation suspension (t=0)
Na = surviving microbes after the test
R = reduction factor (R= N_0/ Na; LogR=LogN_0 - Log Na)

Appendix 2

Interpretation:

The ready to use product CHEMISEPT MED (batch no. 196300919) was tested according to the test method 1650:2019. The test was performed at 20 °C ± 1 °C, under clean and dirty conditions during contact times of 30 s and 60 s. The membrane filtration method was used for testing the product's effectiveness against the reference strain *Aspergillus brasiliensis* ATCC 16404. Under clean and dirty conditions the tested product was effective against the reference strain within contact times tested.

Conclusion:

The surviving count of the reference strains showed at least 4 lg reduction meaning that the ready to use product CHEMISEPT MED is effectice against *A.brasiliesis* ATCC 16406 under clean and dirty conditions within 30 s.

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Nele Aas-Valleriani
Microiologist
25.11.2019