Nordic Tersus
Laboratory

Test report No. 15419hd

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 14:21:27 EET
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Location: Moldova

Nordic Tersus Laboratory

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Name of the product:	CHEMISEPT MED
Batch number:	196300919
Order number:	19033
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:	15 s
Interfering substance:	3.0 g/l bovine albumin = dirty conditions
Rinsing liquid:	Tryptone 1 g/l + NaCl 9 g/l
Neutralizer:	-
Test organisms:	*Candida albicans* ATCC 10231
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:	07.10.2019 – 09.10.2019
Results:	look appendix 1-2

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: *Candida albicans* ATCC 10231;
Test temperature: +20° C; Incubation temperature: +30 ± 1° C
Interfering substance: 3.0 g/l bovine albumin = dirty conditions
Nordic Tersus Laboratory LLC.; Date of test: 07.10.2019
Responsible person: Nele Aas-Valleriani

Validation and controls

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}	$\bar{x}$
147	150	148.5	141	134	137.5	134	116	125	122	125	123.5
30 ≤ $\bar{x}$ N_{vo} ≤160?yes X; no □			$\bar{x}$ A is ≥ 0.5 $\bar{x}$ N_{vo}?yes X;no □			$\bar{x}$ B is ≥ 0.5 $\bar{x}$ N_{vo}? yesX; no □			$\bar{x}$ C is ≥ 0.5 $\bar{x}$ N_{vo}? yes X;no □		

Test suspension and test

Testsuspension:	N	V_{C1}	V_{C2}	$\bar{x}_{wm} = 5.00 \times 10^7$; log$N$ = 7.70
N and N_0	10^{-5}	485	489	$N_0 = N/10$; logN_0 = 6.70
	10^{-6}	58	68	6.17≤ logN_0≤6.70; yesX; no □

Experimental results

Concentration of the product	Dilution step	V_{C1}	V_{C2}	Na (=$\bar{x}$*10)	log Na	logR	Contact time	Conditions
10%	-	>165	>165	>1650	>3.22	<3.48	15 s	Dirty
50%	-	44	106	750	2.88	3.82	15 s	Dirty
80%	-	18	24	210	2.32	4.38	15 s	Dirty

Explanations:
V_C = count per ml (one plate or more)
$\bar{x}$ = 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 dirty conditions during contact time of 15 s. The membrane filtration method was used for testing the product's effectiveness against the reference strain *Candida albicans* ATCC 10231. Under dirty conditions the tested product was effective against the reference strain within contact time 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 *C.albicans* ATCC 10231 under dirty conditions within 15 s.**

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

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Nele Aas-Valleriani
Microiologist
25.11.2019