

Test report No. sd0118

EVALUATION OF FUNGICIDAL OR YEASTICIDAL ACTIVITY IN THE MEDICAL AREA
(EN 13624)

Name of the product:	Bactacid AF
Batch number:	197101017
Order number:	17028
Manufacturer:	Chemi-Pharm Ltd.
Client, representative:	Chemi-Pharm Ltd., Põllu 132, Tallinn, 10917, ESTONIA Maris Millner, +372-51-77-090
Date of delivery:	15.12.2017
Test material conditions:	No specific features, sample in the manufacturers tare
Storage conditions:	In room temperature, dark
Active substance – conc.:	Ethyl alcohol 57.0% wt, isopropyl alcohol 6.0% wt
Appearance of the product:	Transparent liquid
Test concentration:	Ready to use
Contact time:	30 sec
Interfering substance:	15 g/l bovine albumin + 15 ml/l sheep blood erythrocytes = Dirty conditions
Rinsing liquid:	Tryptone 1 g/l + NaCl 9 g/l
Neutralizer:	-
Test organisms:	<i>Candida albicans</i> ATCC 10231
Testing method:	EVS-EN 13624:2013 Quantitative suspension test for the evaluation of fungicidal or yeastcidal activity in the medical area.
Testing date:	23.01.2018 – 25.01.2018
Results:	look appendix 1-2



Diana Kaare, MSc

Head of laboratory, microbiologist

Date of test report: 26.01.2018

TEST RESULTS (yeasticidal suspension test)

EVS-EN 13624:2013; 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° C
Interfering substance: 15 g/l bovine albumin + 15 ml/l sheep blood erythrocytes = Dirty conditions
Nordic Tersus Laboratory LLC.; Date of test: 23.01.2018 – 25.01.2018.
Responsible person: Diana Kaare

Validation and controls

Dirty conditions

Validation suspension N_{vo}			Experimental conditions control (A)			Filtration control (B)			Method validation (C)		
V_{C1}	45	$\bar{x} = 43.5$	V_{C1}	38	$\bar{x} = 35$	V_{C1}	41	$\bar{x} = 37$	V_{C1}	39	$\bar{x} = 41.5$
V_{C2}	42		V_{C2}	32		V_{C2}	33		V_{C2}	44	
$30 \leq \bar{x} N_{vo} \leq 160$? yes X; no □			$\bar{x} A$ is $\geq 0.5 \bar{x} N_{vo}$? yes X; no □			$\bar{x} B$ is $\geq 0.5 \bar{x} N_{vo}$? yes X; 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}	$\bar{x}_{wm} = 1.71 \times 10^8$; $\log N = 8.23$ $N_0 = N/100$; $\log N_0 = 6.23$ $6.17 \leq \log N_0 \leq 6.70$; yes X; no □
N and N_0	10^{-6}	172	164	
	10^{-7}	19	22	

Experimental results

Concentration of the product	Dilution step	V_{C1}	V_{C2}	Na ($=\bar{x} \cdot 10$)	$\log Na$	$\log R$	Contact time	Conditions
Ready to use	-	<14	<14	<140	<2.15	>4.08	30 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 ($R = N_0 / Na$; $\log R = \log N_0 - \log Na$)

Interpretation:

The ready to use product for surface disinfection BACTICID AF (batch no. 197101017) was tested according to the test method EVS-EN 13624:2013. The test was performed at $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$, under dirty conditions with the contact time of 30 s. The membrane filtration method was used for testing the products effectiveness against the reference strain: *Candida albicans* ATCC 10231. Under dirty conditions the tested product was effective against the reference strain within 30 s of contact time.

Conclusion:

The surviving count of the reference strain showed at least 4 lg reduction meaning that under dirty conditions the ready to use product BACTICID AF has a yeasticidal effect in case of surface disinfection within 30 s.



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