

Test report No. 12/2015

EVALUATION OF YEASTICIDAL AND FUNGICIDAL ACTIVITIES (EN 13624)

Name of the product: CHEMISEPT G
Batch number: LOT 69090215
Manufacturer: Chemi-Pharm Ltd.
Client, representative: Chemi-Pharm Ltd., Põllu 132, Tallinn, 10917, ESTONIA
Maris Millner, +372-51-77-090
Date of delivery: 06.04.2015
Date of registration: 06.04.2015
Test material conditions: no specific features, sample in the manufacturers tare
Storage conditions: in room temperature, dark
Appearance of the product: amount 1000 ml
Contact time: 15 sec, clean and dirty conditions
Interfering substance: 3,0 g/l bovine albumin and 3,0 ml/l sheep blood erythrocytes
Test neutralizer: polysorbate 80, 30 g/l; saponine, 30 g/l; lecithin, 3 g/l
Test organisms: *Candida albicans* ATCC 10231
Testing method: EVS-EN 13624:2013

Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area.

Testing date: 06.04 – 10.04.2015

Results: look at appendix I



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Raul Randsepp, MSc
Head of Laboratory, microbiologist

Appendix I

TEST RESULTS (yeasticial suspension test)

Product: **CHEMISEPT G**

Dilution neutralization method; Spread plate;

Neutralizers: Polysorbate 80, 30 g/l; Saponine, 30 g/l; lecithin, 3 g/l

Test organism: *Candida albicans* ATCC 10231;

Test temperature: +20° C; Incubation temperature: +30° C

Solvents: water;

Interfering substance: 3,0 g/l bovine albumin and 3,0 ml/l sheep blood erythrocytes

Nordic Tersus Laboratory LLC.; Date of test: 06.04 – 10.04.2015

Responsible person: Raul Raudsepp

Validation and controls

Clean conditions

Validation suspension N_{vo}		Experimental conditions (A)		Neutralizer control (B)		Method validation (C)	
V_{C1}	$67+81=148$	$\bar{x} = 144,5$	V_{C1} 15 sek $45+65=110$	$\bar{x} = 124,5$	V_{C1} 30 sek $71+63=134$	V_{C1} 45+16=61	$\bar{x} = 78$
V_{C2}	$66+75=141$		V_{C2} 15 sek $62+77=139$	5	V_{C2} 30 sek 134	V_{C2} 42+53=95	
$30 \leq \bar{x} N_{vo} \leq 160$? yes X; no <input type="checkbox"/>		$\bar{x} A$ is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>		$\bar{x} B$ is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>		$\bar{x} C$ is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>	
Validation suspension N_{TB}		V_{C1} 59+64=123		V_{C2} 72+54=126; $\bar{x}=124,5$		$30 \leq \bar{x} N_{TB}/1000 \leq 160$? yes X; no <input type="checkbox"/>	

Test suspension and test

Test suspension: N and N_0	N	V_{C1}	V_{C2}	$\bar{x} = 2,0 \times 10^9$; $\log N = 9,30$
	10^{-7}	205	198	$N_0 = N/100$; $\log N_0 = 7,30$
	10^{-8}	25	12	$7,17 \leq \log N_0 \leq 7,7$; yes X; no <input type="checkbox"/>

Experimental results

Concentration of the product. %	Dilution step	V_{C1}	V_{C2}	Na (= \bar{x} *10)	log Na	logR	Contact time	Conditions
RTU	-	34	17	510	2,71	4,61	15''	clean
	10x	0	0					

Validation and controls

Dirty conditions

Validation suspension N_{vo}	Experimental conditions (A)	Neutralizer control (B)	Method validation (C)
V_{C1} 67+81=148	V_{C1} 78+91=159,5 15 sec 169	V_{C1} 69+63=132 \bar{x} = 132	V_{C1} 29+40=69 \bar{x} = 74
V_{C2} 66+75=141	V_{C2} 85+65=150 15 sec	V_{C2}	V_{C2} 28+51=79
$30 \leq \bar{x} N_{vo} \leq 160$? yes X; no <input type="checkbox"/>	\bar{x} A is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>	\bar{x} B is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>	\bar{x} C is $\geq 0,5 \bar{x} N_{vo}$? yes X; no <input type="checkbox"/>
Validation suspension N_{VB}	V_{C1} 59+64=123	V_{C2} 72+54=126; \bar{x} =124,5	$30 \leq \bar{x} N_{VB}/1000 \leq 160$? yes X; no <input type="checkbox"/>

Test suspension and test

Test suspension: N and N_0	N	V_{C1}	V_{C2}	$\bar{x} = 2,0 \times 10^9$; $\log N = 9,30$
	10^{-7}	205	198	$N_0 = N/100$; $\log N_0 = 7,30$
	10^{-8}	25	12	$7,17 \leq \log N_0 \leq 7,7$; yes X; no <input type="checkbox"/>

Experimental results

Concentration of the product. %	Dilution step	V_{C1}	V_{C2}	Na (= \bar{x} *10)	log Na	logR	Contact time	Conditions
RTU	-	17	28	225	2,35	5,17	15''	dirty
	10x	0	0					
	10x	0	0					

Interpretation

Using the **EN 13624:2013** method, there was tested product **CHEMISEPT G** at the temperature conditions $20\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$, with the contact time 15 seconds and the clean and dirty conditions. The dilution neutralization method has been used for the testing of product effect onto the microorganism *Candida albicans* ATCC 10231. In clean and dirty conditions (test regime) tested product was been active against the test organism in the selected contact times.

Conclusion

By the test results it can be made conclusion, that tested product **CHEMISEPT G** has yeasticidal effect at the contact time 15 seconds.



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Raul Raudsepp, MSc
Head of laboratory, microbiologist