



EVS-EN 1650:2019
OÜ BALTACHEMI
LABORATORY
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Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity (phase 2, step 1)

TEST REPORT no 510

1. General information and material

Client:

OY FINNSCO
Reg. 2387841-4
Peltosaarenkatu 19 FI-11130 Riihimäki, Finland

2. Identification of sample

Name of the product: PRO-10® PINTADESI
Batch number: 23.04.2020
Manufacturer: OY FINNSCO
Date of delivery: 2020/05/05

Microbiologist
Ljudmila Shljapnikova
Ph.D.
Head of the Laboratory

Storage conditions: room temperature and darkness
Apperance of the product: clear colorless liquid
Recommended diluent: product is ready for use
Active substance: Ethanol 73,5 %

3. Test conditions

Test period: 2020/05/06 – 2020/05/11
Date of test: 2020/05/06
Product test concentrations: 98 %
Exposure time: 30 sec., 60 sec.
Test temperature: 19,5 ± 0,5°C
Organic load: clean conditions (bovine albumine 0,3 g/l)
Neutralizer: Polysorbate 80, 30 g/l, Lecithin, 3 g/l, Saponin, 30 g/l
Test organisms: Candida albicans ATCC 10231
Aspergillus brasiliensis ATCC 16404
modified method dilution neutralization

4. Method

5. Results

6. Conclusion

In accordance with EVS-EN 1650:2019 product PRO-10® PINTADESI (batch number 23.04.2020) with concentration 98 % possesses yeasticidal activity in suspension test at 20 °C under clean conditions in 30 sec. for strain Candida albicans ATCC 10231 and possesses fungicidal activity in 60 sec. for strain Aspergillus brasiliensis ATCC 16404. The product PRO-10® PINTADESI (batch number 23.04.2020) demonstrates at least a 4 lg reduction.

Total 6 pages

Annex on 4 pages

2020/05/11

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Annex 1

VALIDATION AND CONTROLS

Test organisms	Validation suspension Nvo			Experimental conditions control A			Neutralizer control B			Method validation C Concentration 98 %		
	Vc1	Vc2	\bar{X}	Vc1	Vc2	\bar{X}	Vc1	Vc2	\bar{X}	Vc1	Vc2	\bar{X}
Candida albicans ATCC 10231	60	74	67	55	62	59	49	53	51	46	50	48
Aspergillus brasiliensis ATCC 16404	40	51	46	37	42	40	35	37	36	36	39	38

Annex 2

TEST SUSPENSION

Test organisms	N	Vc1	Vc2	No
Candida albicans ATCC 10231	-6	>100	>100	$N = 2,0 \times 10^8 = \lg 8,3$ $No = N / 100 = \lg 6,3$ $6,17 \leq \lg No \leq 6,70$
	-7	18	22	
Aspergillus brasiliensis ATCC 16404	-6	168	152	$N = 1,51 \times 10^8 = \lg 8,18$ $No = N / 100 = \lg 6,18$ $6,17 \leq \lg No \leq 6,70$
	-7	13	18	

Annex 3

Test 1 Candida albicans ATCC 10231

Test organisms	Dilution step	Vc1	Vc2	Na x 10	lg Na	lg R	Contact time
Candida albicans ATCC 10231	1	0	0	< 140	< 2,15	> 4,15	30 sec.
	-1	0	0				
	-2	0	0				
	-3	0	0				
Aspergillus brasiliensis ATCC 16404	1	1	0	< 140	< 2,15	> 4,03	60 sec.
	-1	1	0				
	-2	0	0				
	-3	0	0				

Annex 4

$$N = c / (n1 + 0,1 n2) \times 10^{-6}$$

$$N_0 = N / 100$$

$$N_a = c \times 10 / n$$

$$R = \lg N_0 - \lg N_a$$

N – is the number of colonies for 1 ml test suspension

N₀ – is the number of colonies for 1 ml test mixture in contact time 0 sec.

V_{c1}, V_{c2} - is the is number of colonies for 1 ml sample

n – is the number of V_c-values taken into account

R – is the reduction factor