Test report number 0721421-2 according to pr EN 1275 (2005-01)

Quantitative suspension test for the evaluation of basic fungicidal activity of chemical disinfectants and antisetics - Test method and requirements (phase 1)

Identification of the test laboratory: SGS-Germany GmbH
Laboratory Services Hamburg
Weidenbaumsweg 137, 21035 Hamburg

Identification of the product:

Product name: **Bacoban ® WB**
Batch number: 2007312_WDM_konz_krei
Manufacturer: Sarastro GmbH, 66287 Quierschied-Göttelborn
Date of delivery: 2007-03-14
Storage conditions: room-temperature
Active ingredient(s): not indicated

Test method and its validation:

Method: Membrane filtration

Test conditions:

Period of analysis: 2007-06-11 - 2007-06-14
Appearance of the product: product: yellow-orange / Dilutions: light yellow
Test concentration (vol.-%) 0,25%, 1,00%
Diluent of the Dilution: distilled water
contact time: 5 min.; 15 min.
Test temperature: 20°C +/-1°C
Stability of the mixture during the procedure: no optical change
Referenced strains: ***Candida albicans ATCC 10231***
Temperature of incubation: 30 ± 1 °C
Counting method: pour plate

Test results: see table 1a-c

Conclusion:

According pr EN 1275 (2005-01) the product Bacoban®WB, when diluted at 0,25% in distilled water, possesses fungicidal activity in 5 min. at 20°C for referenced strains *Candida albicans ATCC 10231* (required reduction: 4 log).

To quality the product as a chemical disinfectant and/or an antiseptic for a determined intended use, it has to be assessed by additional normed tests, which are corresponding to the intended application.

Hamburg, 18.6.2007

i.V.
Dr. Roy Hörner (Laboratory manager)
Heidrun Globisch (Leader Microbiology)

Test report number 0721421-2 according to pr EN 1275 (2005-01)

Quantitative suspension test for the evaluation of basic fungicidal activity of chemical disinfectants and antisetics - Test method and requirements (phase 1)

Product: Bacoban ® WB, Period of analysis: 2007-06-11 - 2007-06-14

Test strain: C. albicans

Table1a - Validation of the carrier test method for the test product as received

test suspension for validation (Nv_0)			Experimental conditions (A) 5 min.			Validation of the filtration (B)			Validation of neutralization (C) test concentration: 1,0%; 5 min.		
Vc1	162	170	Vc1	121	122	Vc1	88	93	Vc1	152	139,5
Vc2	178		Vc2	123		Vc2	98		Vc2	127	
$45 \leq \bar{x}$ Nv0 ≤ 180?			$\bar{x}$ A $\geq 0{,}5 * \bar{x}$ Nv0?			$\bar{x}$ B $\geq 0{,}5 * \bar{x}$ Nv0?			$\bar{x}$ C $\geq 0{,}5 * \bar{x}$ Nv0?		
☒ yes ☐ no			☒ yes ☐ no			☒ yes ☐ no			☒ yes ☐ no		

Experimental conditions (A) 15 min.			Validation of neutralization (C) test concentration: 1,0%; 15 min.		
Vc1	120	107	Vc1	143	130,5
Vc2	94		Vc2	118	
$\bar{x}$ A $\geq 0{,}5 * \bar{x}$ Nv0?			$\bar{x}$ C $\geq 0{,}5 * \bar{x}$ Nv0?		
☒ yes ☐ no			☒ yes ☐ no		

Table 1b: Test suspension

Test suspension (N and N_0)	N	Vc1	Vc2	$\bar{x}_{wm}$ = 2,04E+07 cfu/ml
	10^{-5}	203	193	$N_0 = N/10 = \lg$ 6,31
	10^{-6}	28	25	$6{,}17 \leq N_0 \leq 6{,}70$? ☒ yes ☐ no

Table 1c: Test results

Test concentration vol.-%	N_{ao} Vc1	N_{ao} Vc2	$N_a \bar{x} * 10$	lg Na	lg R (N_0= 6,31)	contact time (min.)
0,25	1	6	<140	<2,15	>4,16	5
1,00	1	0	<140	<2,15	>4,16	5
0,25	0	0	<140	<2,15	>4,16	15
1,00	0	0	<140	<2,15	>4,16	15

Vc1; Vc2= cfu/platte

Na is the number of cells per ml in the test mixture at the end of the contact time and before neutralization or membrane-filtration. It is tenfold higher than the Vc (Vc1 + Vc2 /2) values due to the addition of neutralizer and water or the sample volume of 0,1 ml in the membrane-filtration.