



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: TriBioSan

Batch or ref no:

Manufacturer or supplier: Eco-Mist Biotechnics International Ltd
Unit A2, Mainline Industrial Estate, Milnthorpe, LA7 7LR

Sample ref: 18G/010 **Date received:** 5 July 2018

Date tested: 6 July 2018 **Report date:** 9 July 2018

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Analysis required: EN 1275:2005, Chemical disinfectants and antiseptics -
Quantitative suspension test for the evaluation of basic
fungicidal or basic yeasticidal activity of chemical
disinfectants and antiseptics - Test method and requirements
(phase 1)

Storage conditions: Room temperature in darkness

Appearance of product (solution): Clear colourless liquid

Active substance(s) and their concentration(s): Not disclosed

Notes

The test results in this report relate only to the sample(s) tested.
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to create a derivative work, without written approval from Abbott Analytical.

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Experimental conditions

Concentration(s) of product tested: Neat¹

Product diluent: N/A

Test organism(s): *Aspergillus brasiliensis* (DSM 1988)
Candida albicans (DSM 1386)

Contact time(s): 15 min ± 10 s

Test temperature: 20 °C ± 1 °C

Test conditions: N/A

Interfering substance: None

Method: Dilution-neutralisation

Neutralising solution: 30 g/l Polysorbate 80 + 3 g/l Lecithin +
1 g/l L-histidine + 1 g/l L-cysteine

Incubation temperature: 30 °C ± 1 °C

Remarks

- 1) Products can only be tested at a concentration of 80 % or less as some dilution is always produced by adding the test organisms and interfering substance.

Conclusion

When tested neat this sample of TriBioSan meets the requirements of EN 1275:2005 for fungicidal activity in 15 minutes at 20 °C, against both of the referenced strains of *Aspergillus brasiliensis* and *Candida albicans*.

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Results: *Aspergillus brasiliensis* (DSM 1988)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: Neat		
Vc1	31	$\bar{x} =$	Vc1	36	$\bar{x} =$	Vc1	30	$\bar{x} =$	Vc1	29	$\bar{x} =$
Vc2	33	32	Vc2	32	34	Vc2	29	29.5	Vc2	31	30
$30 \leq \bar{x} (Nv_o) \leq 160$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (A) \geq 0.5 \times \bar{x} (Nv_o)$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (B) \geq 0.5 \times \bar{x} (Nv_o)$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (C) \geq 0.5 \times \bar{x} (Nv_o)$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension: (N and N_o)

N	Vc1	Vc2	$\bar{x}(\text{wm}) = 1.70 \times 10^7$; $\lg N = 7.23$
10^{-5}	>165	>165	$N_o = N/10$; $\lg N_o = 6.23$
10^{-6}	18	16	$6.17 \leq \lg N_o \leq 6.70$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = N/A Between 5 and 15 ? <input type="checkbox"/> yes <input type="checkbox"/> no

Test:

Product test conc.	Contact time	Vc1	Vc2	$N_a =$ ($\bar{x} \times 10$)	$\lg N_a =$	$\lg R =$ ($\lg N_o - \lg N_a$)	Status
Neat	15 min	5	6	< 140	< 2.15	> 4.08	PASS

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Results: *Candida albicans* (DSM 1386)

Validation and controls:

Validation suspension (N_{v_o})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: Neat		
Vc1	61	$\bar{x} =$	Vc1	59	$\bar{x} =$	Vc1	62	$\bar{x} =$	Vc1	61	$\bar{x} =$
Vc2	57	59	Vc2	60	59.5	Vc2	57	59.5	Vc2	63	62
30 ≤ \bar{x} (N_{v_o}) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) ≥ 0.5 × \bar{x} (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) ≥ 0.5 × \bar{x} (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) ≥ 0.5 × \bar{x} (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:
(N and N_o)**

N	Vc1	Vc2	\bar{x} (wm) = 3.02 × 10 ⁷ ; lg N = 7.48
10 ⁻⁵	304	300	$N_o = N/10$; lg N_o = 6.48
10 ⁻⁶	31	29	6.17 ≤ lg N_o ≤ 6.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 10.07 Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:

Product test conc.	Contact time	Vc1	Vc2	$N_a =$ (\bar{x} × 10)	lg $N_a =$	lg R = (lg N_o - lg N_a)	Status
Neat	15 min	0	0	< 140	< 2.15	> 4.33	PASS

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