



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: Raspberry Shampoo

Batch or ref no: 3066, 10/08/18

Manufacturer or supplier: Safe Solutions (Safe4) Ltd
Wharton Green House, Bostock Road, Winsford, CW7 3BD

Sample ref: 18H/043 **Date received:** 13 August 2018

Date tested: 15 August 2018 **Report date:** 17 August 2018

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Analysis required: EN 1650:2008+A1:2013, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1) ¹

Storage conditions: Room temperature in darkness

Appearance of product (solution): Thick opaque pink liquid

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

Notes

The test results in this report relate only to the sample tested, as received from the client.

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Experimental conditions

Concentration(s) of product tested: Neat ²

Product diluent: N/A

Test organism(s): *Candida albicans* (DSM 1386)

Contact time(s): 5 min ± 10 s

Test temperature: 20 °C ± 1 °C

Test conditions: Clean

Interfering substance: 0.3 g/l bovine albumin

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: 36 °C ± 1 °C

Remarks

- 1) Additional serial dilutions of Na (down to 10⁻²) undertaken at client's request in order to demonstrate at least a 2 lg reduction against the test organism.
- 2) 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 Raspberry Shampoo obtains a greater than 3 lg reduction in 5 minutes at 20 °C, under clean conditions, against the referenced strain of *Candida albicans*.

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Results: *Candida albicans* (DSM 1386)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: Neat		
Vc1	87	$\bar{x} =$	Vc1	84	$\bar{x} =$	Vc1	85	$\bar{x} =$	Vc1	82	$\bar{x} =$
Vc2	86	86.5	Vc2	87	85.5	Vc2	90	87.5	Vc2	84	83
30 ≤ \bar{x} (Nv_o) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) ≥ 0.5 × \bar{x} (Nv_o) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) ≥ 0.5 × \bar{x} (Nv_o) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) ≥ 0.5 × \bar{x} (Nv_o) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

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

N	Vc1	Vc2	\bar{x} (wm) = 3.75 × 10 ⁷ ; lg N = 7.57
10 ⁻⁵	>330	>330	$N_o = N/10$; lg $N_o = 6.57$
10 ⁻⁶	37	38	6.17 ≤ lg N_o ≤ 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	Diln. step	Vc1	Vc2	$N_a = \bar{x}$ (wm) × 10 ¹⁰ lg $N_a =$	lg R = (lg N_o - lg N_a)	% kill
Neat	5 min	10 ⁰	297	304	3.48	3.09	99.919
		10 ⁻¹	29	32			
		10 ⁻²	2	3			

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