



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: PSDA Shampoo

Batch or ref no:

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

Sample ref: 18C/074 **Date received:** 29 March 2018

Date tested: 4 April 2018 **Certificate date:** 6 April 2018

Certificate no: 18C.074ISa-L3.SSL **Page:** 1 of 3

Analysis required: Adaptation of EN 1276:2009, *Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)* to show a greater than 3 lg reduction

Storage conditions: Room temperature in darkness

Appearance of product (solution): Pink thick 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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Experimental conditions

Concentration(s) of product tested: Neat as received
(test concentration 80 %)

Product diluent: N/A

Test organism(s): *Staphylococcus aureus* (DSM 799)

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

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

Additional serial dilutions of Na (down to 10^{-2}) undertaken at client's request in order to at least a 3 lg reduction against each test organism.

Conclusion

When tested neat this sample of PSDA Shampoo obtains a greater than 5 lg reduction in 5 minutes at 20 °C, under clean conditions, against the referenced strain of *Staphylococcus aureus*.

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Results: *Staphylococcus aureus* (DSM 799)

Validation and controls:

Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	56	$\bar{x} =$	Vc1	62	$\bar{x} =$	Vc1	62	$\bar{x} =$	Vc1	59	$\bar{x} =$
Vc2	61	58.5	Vc2	59	60.5	Vc2	62	62	Vc2	61	60
30 ≤ \bar{x} (N_{v0}) ≤ 160 ?			\bar{x} (A) ≥ 0.5 × \bar{x} (N_{v0})?			\bar{x} (B) ≥ 0.5 × \bar{x} (N_{v0})?			\bar{x} (C) ≥ 0.5 × \bar{x} (N_{v0})?		
<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no			<input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:
(N and N_0)**

N	Vc1	Vc2	\bar{x} (wm) = 4.40 × 10 ⁸ ; lg N = 8.64
10 ⁻⁶	>330	>330	$N_0 = N/10$; lg $N_0 = 7.64$
10 ⁻⁷	43	45	7.17 ≤ lg N_0 ≤ 7.70 ? <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 ⁸ lg $N_a =$	lg R = (lg N_0 - lg N_a)	Status
Neat	5 min	10 ⁰	0	0	< 2.15	> 5.49	PASS
		10 ⁻¹	0	0			
		10 ⁻²	0	0			

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