



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.074IEc-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.
This test report may not be reproduced except in full, adapted, altered or used to create a derivative work, without written approval from Abbott Analytical.

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Experimental conditions

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

Product diluent: N/A

Test organism(s): *Escherichia coli* (DSM 682)

Contact time(s): 5 min \pm 10 s

Test temperature: 20 °C \pm 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 \pm 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 *Escherichia coli*.

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Results: *Escherichia coli* (DSM 682)

Validation and controls:

Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	60	$\bar{x} =$	Vc1	59	$\bar{x} =$	Vc1	62	$\bar{x} =$	Vc1	61	$\bar{x} =$
Vc2	61	60.5	Vc2	57	58	Vc2	60	61	Vc2	63	62
30 ≤ \bar{x} (N_{v0}) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) ≥ 0.5 × \bar{x} (N_{v0}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) ≥ 0.5 × \bar{x} (N_{v0}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) ≥ 0.5 × \bar{x} (N_{v0}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

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

N	Vc1	Vc2	\bar{x} (wm) = 4.80 × 10 ⁸ ; lg N = 8.68
10 ⁻⁶	>330	>330	$N_0 = N/10$; lg $N_0 = 7.68$
10 ⁻⁷	49	47	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 ⁰ lg $N_a =$	lg R = (lg N_0 - lg N_a)	Status
Neat	5 min	10 ⁰	0	0	< 2.15	> 5.53	PASS
		10 ⁻¹	0	0			
		10 ⁻²	0	0			

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