



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Test Report

Product name: Safe4 Disinfectant Cleaner Concentrate

Batch or ref no: 31.07.18 - 105

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

Sample ref: 18B/013 **Date received:** 2 February 2018

Date tested: 20 February 2018 **Certificate date:** 28 February 2018*

Certificate no: 18B.013VBb2-L4.SSL **Page:** 1 of 3

Analysis required: Adaptation of EN 1656:2009, *Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)* to show a greater than 4 lg reduction

Storage conditions: Room temperature in darkness

Appearance of product (solution): Green 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.

* Re-issue of report 18B.013VBb-L4.SSL, dated 22 February 2018, with updated conclusion.

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Experimental conditions

Concentration(s) of product tested: 1:50 v/v

Product diluent: Sterile hard water (300 mg/l CaCO₃)

Test organism(s): *Bordetella bronchiseptica* (NCTC 452)

Contact time(s): 10 min ± 10 s

Test temperature: 10 °C ± 1 °C

Test conditions: High-level soiling

Interfering substance: 10.0 g/l bovine albumin +
10.0 g/l yeast extract

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

Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate obtains a greater than 4 lg (99.99 %) reduction in 10 minutes at 10 °C, under high-level soiling conditions, against the referenced strain of *Bordetella bronchiseptica*.

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Results: *Bordetella bronchiseptica* (NCTC 452)

Validation and controls:

Validation suspension (N_{v_o})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	61	$\bar{x} =$	Vc1	59	$\bar{x} =$	Vc1	60	$\bar{x} =$	Vc1	69	$\bar{x} =$
Vc2	63	62	Vc2	64	61.5	Vc2	63	61.5	Vc2	64	66.5
$30 \leq \bar{x} (N_{v_o}) \leq 160$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (A) \geq 0.5 \times \bar{x} (N_{v_o})$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (B) \geq 0.5 \times \bar{x} (N_{v_o})$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (C) \geq 0.5 \times \bar{x} (N_{v_o})$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension: (N and N_o)

N	Vc1	Vc2	$\bar{x}(\text{wm}) = 4.25 \times 10^8$; $\lg N = 8.63$
10^{-6}	>330	>330	$N_o = N/10$; $\lg N_o = 7.63$
10^{-7}	44	41	$7.17 \leq \lg N_o \leq 7.70$? <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	$N_a = \bar{x}(\text{wm}) \times 10$ $\lg N_a =$	$\lg R =$ ($\lg N_o - \lg N_a$)	% kill
1:50	10 min	10^0	>330	>330	3.60	4.03	99.991
		10^{-1}	41	39			

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