



Abbott Analytical

Consulting Scientists to the Disinfectant Industry



Test Report

Product name: Safe4 Disinfectant Cleaner Concentrate

Batch or ref no:

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

Sample ref: 18F/078 **Date received:** 28 June 2018

Date tested: 12 July 2018 **Report date:** 20 July 2018

Report no: 18F.078VMn.SSL **Page:** 1 of 3

Analysis required: EN 1657:2016, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

Storage conditions: Room temperature in darkness

Appearance of product (solution): Dark green 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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Date: 20 July 2018

Page: 2 of 3

Experimental conditions

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

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

Test organism(s): *Microsporum canis* (NCPF 946) ²

Contact time(s): 5 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: 30 °C ± 1 °C ²

Remarks

- 1) Sample tested at a single concentration only, as requested by the client.
- 2) Due to the slow-growing nature of the test organism, incubation was extended to 7 days.

Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 1657:2016 for fungicidal activity in 5 minutes at 10 °C, under high-level soiling conditions, against the referenced strain of *Microsporum canis*.

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Page: 3 of 3

Results: *Microsporium canis* (NCPF 946)

Validation and controls:

Validation suspension (N_{v_o})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	34	$\bar{x} =$	Vc1	30	$\bar{x} =$	Vc1	41	$\bar{x} =$	Vc1	32	$\bar{x} =$
Vc2	32	33	Vc2	32	31	Vc2	34	37.5	Vc2	29	30.5
$30 \leq \bar{x} (N_{v_o}) \leq 160$?			$\bar{x} (A) \geq 0.5 \times \bar{x} (N_{v_o})$?			$\bar{x} (B) \geq 0.5 \times \bar{x} (N_{v_o})$?			$\bar{x} (C) \geq 0.5 \times \bar{x} (N_{v_o})$?		
<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_o)

N	Vc1	Vc2	$\bar{x}_{wm} = 1.61 \times 10^7$; $\lg N = 7.21$
10^{-5}	162	160	$N_o = N/10$; $\lg N_o = 6.21$
10^{-6}	17	15	$6.17 \leq \lg N_o \leq 6.70$? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			Quotient = 10.06
			Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:	Product test conc.	Contact time	Vc1	Vc2	$N_a = \bar{x} \times 10$	$\lg N_a$	$\lg R$ ($\lg N_o = 6.21$)	Status
	1:50	5 min	4	1	< 140	< 2.15	> 4.06	PASS

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