



# 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

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**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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## Experimental conditions

**Concentration(s) of product tested:** 1:50 v/v <sup>1</sup>

**Product diluent:** Sterile hard water (300 mg/l CaCO<sub>3</sub>)

**Test organism(s):** *Trichophyton mentagrophytes* (NCPF 224) <sup>2</sup>

**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 <sup>2</sup>

## 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 *Trichophyton mentagrophytes*.

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**Results: *Trichophyton mentagrophytes* (NCPF 224)**

**Validation and controls:**

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	51	$\bar{x} =$	Vc1	47	$\bar{x} =$	Vc1	50	$\bar{x} =$	Vc1	49	$\bar{x} =$
Vc2	49	50	Vc2	52	49.5	Vc2	50	50	Vc2	44	46.5
30 ≤ $\bar{x}$ ( $N_{v_o}$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

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

N	Vc1	Vc2	$\bar{x}$ $w_m = 1.66 \times 10^7$ ; lg N = 7.22
10 <sup>-5</sup>	>165	164	$N_o = N/10$ ; lg $N_o = 6.22$
10 <sup>-6</sup>	16	19	6.17 ≤ lg $N_o$ ≤ 6.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			Quotient = 9.40 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 $N_o = 6.22$ )	Status
1:50	5 min	6	6	< 140	< 2.15	> 4.07	PASS

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