



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: 18K/057 **Date received:** 22 October 2018

Date tested: 24 October 2018 **Report date:** 9 November 2018

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Analysis required: EN 14204:2012, Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of mycobactericidal 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: 1:100 v/v ¹

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

Test organism(s): *Mycobacterium marinum* (NCIMB 1297) ²

Contact time(s): 30 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

Remarks and/or Deviations

- 1) Sample tested at a single concentration only, as requested by the client.
- 2) According to EN 14204:2012 (Clauses 5.4.1.6 and 5.5.2.7) all plates should be incubated for an initial period of 21 days, counted, incubated for a further 7 days and then recounted.

However, *Mycobacterium marinum* grows more quickly than the obligatory test organism, *Mycobacterium avium*. Therefore, for this test all plates were incubated for an initial period of 7 days, counted, incubated for a further 7 days and then recounted.

Conclusion

When tested at a concentration of 1:100 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 14204:2012 for mycobactericidal activity in 30 minutes at 10°C, under high-level soiling conditions, against the referenced strain of *Mycobacterium marinum*.

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Results: Mycobacterium marinum (NCIMB 1297)

Validation and controls:

Validation suspension (N_{v_o})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: 1:100		
Vc1	67	$\kappa =$	Vc1	69	$\kappa =$	Vc1	62	$\kappa =$	Vc1	67	$\kappa =$
Vc2	64	65.5	Vc2	73	71	Vc2	60	61	Vc2	62	64.5
30 ≤ κ (N_{v_o}) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			κ (A) ≥ 0.5 × κ (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			κ (B) ≥ 0.5 × κ (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			κ (C) ≥ 0.5 × κ (N_{v_o}) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

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

N	Vc1	Vc2	κ wm = 4.00 × 10 ⁸ ; lg N = 8.60
10 ⁻⁶	>330	>330	$N_o = N/10$; lg $N_o = 7.60$
10 ⁻⁷	41	39	7.48 ≤ lg N_o ≤ 7.90 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			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	lg $N_a =$ lg (κ wm × 10)	lg R (lg $N_o = 7.60$)	Status
1:100	30 min	10 ⁰	34	31	2.51	5.09	PASS
		10 ⁻¹	3	2			

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