



# 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:** 16 February 2018              **Certificate date:** 19 February 2018

**Certificate no:** 18B.013VAh.SSL              **Page:** 1 of 3

**Analysis required:** 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)

**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.

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## Experimental conditions

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

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

**Test organism(s):** *Aeromonas hydrophila* (NCTC 8049)

**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:** 100 g/l Polysorbate 80 +  
30 g/l Lecithin + 30 g/l Tryptone Soya  
Broth + 5 g/l Sodium thiosulphate +  
1g/l L-histidine

**Incubation temperature:** 36 °C ± 1 °C

## Conclusion

When tested at a concentration of 1:50 this sample of Safe4 Disinfectant Cleaner Concentrate meets the requirements of EN 1656:2009 for bactericidal activity in 30 minutes at 10 °C, under high-level soiling conditions, against the referenced strain of *Aeromonas hydrophila*.

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## Results: *Aeromonas hydrophila* (NCTC 8049)

### Validation and controls:

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	56	$\bar{x} =$	Vc1	54	$\bar{x} =$	Vc1	59	$\bar{x} =$	Vc1	60	$\bar{x} =$
Vc2	55	55.5	Vc2	55	54.5	Vc2	49	54	Vc2	54	57
$30 \leq \bar{x} (N_{v_o}) \leq 160$ ?			$\bar{x} (A) \geq 0.5 \times \bar{x} (N_{v_o})$ ?			$\bar{x} (B) \geq 0.5 \times \bar{x} (N_{v_o})$ ?			$\bar{x} (C) \geq 0.5 \times \bar{x} (N_{v_o})$ ?		
<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	$\bar{x} (wm) = 3.90 \times 10^8$ ; $\lg N = 8.59$
$10^{-6}$	>330	>330	$N_o = N/10$ ; $\lg N_o = 7.59$
$10^{-7}$	38	40	$7.17 \leq \lg N_o \leq 7.70$ ? <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	Vc1	Vc2	$N_a = (\bar{x} \times 10)$	$\lg N_a =$	$\lg R = (\lg N_o - \lg N_a)$	Status
	1:50	30 min	4	0	< 140	< 2.15	> 5.44	PASS

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