



# 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:** 17L/021                      **Date received:** 9 November 2017

**Date tested:** 8 December 2017              **Certificate date:** 11 December 2017

**Certificate no:** 17L.021VMr.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):** Dark 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):** MRSA (NCTC 12493)#

**Contact time(s):** 30 min ± 10 s

**Test temperature:** 10 °C ± 1 °C

**Test conditions:** High-level soiling

**Interfering substance:** 10 g/l bovine albumin +  
10 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

# Methicillin-resistant *Staphylococcus aureus* (mecA positive).

## 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 MRSA.

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## Results: MRSA (NCTC 12493)

### Validation and controls:

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	49	$\bar{x} =$	Vc1	53	$\bar{x} =$	Vc1	51	$\bar{x} =$	Vc1	47	$\bar{x} =$
Vc2	50	49.5	Vc2	50	51.5	Vc2	51	51	Vc2	45	46
$30 \leq \bar{x} (N_{v_o}) \leq 160$ ? <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	$\bar{x} (wm) = 4.80 \times 10^8$ ; $\lg N = 8.68$
$10^{-6}$	>330	>330	$N_o = N/10$ ; $\lg N_o = 7.68$
$10^{-7}$	49	47	$7.17 \leq \lg N_o \leq 7.70$ ? <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	0	0	<140	<2.15	>5.53	PASS

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