



# *Abbott Analytical*

Consulting Scientists to the Disinfectant Industry



## **Certificate of Analysis**

**Product name:** Safe4 Disinfectant Cleaner Concentrate

**Batch or ref no:**

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

**Sample ref:** 15E/223                      **Date received:** 27 May 2015

**Date tested:** 15 June 2015              **Certificate date:** 13 July 2015

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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):** Clear colourless liquid

**Active substance(s) and their concentration(s):** Not declared

### **Notes**

The test results in this report relate only to the sample(s) tested. This test report may not be reproduced except in full, without written approval from Abbott Analytical.

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## Experimental conditions

**Concentration(s) of product tested:** 1:40 v/v

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

**Test organism(s):** *Mycobacterium bovis* (NCTC 10772)

**Contact time(s):** 30 min ± 10 s

**Test temperature:** 10°C ± 1°C

**Test conditions:** High-level soiling

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

**Method:** Dilution-neutralisation

**Neutralising solution:** 30g/l Polysorbate 80 + 3g/l Lecithin +  
1g/l L-histidine + 1g/l L-cysteine

**Incubation temperature:** 37°C ± 1°C

## Conclusion

When tested at a concentration of 1:40, this sample of Safe4 Disinfectant Cleaner Concentrate passes the requirements of EN 14204:2012 for mycobactericidal activity in 30 minutes at 10°C under high-level soiling conditions against *Mycobacterium bovis* (NCTC 10772).

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**Results: *Mycobacterium bovis* (NCTC 10772)**

**Validation and controls:**

Validation suspension (Nv <sub>o</sub> )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	78	$\bar{x} =$	Vc1	60	$\bar{x} =$	Vc1	56	$\bar{x} =$	Vc1	58	$\bar{x} =$
Vc2	88	83	Vc2	62	61	Vc2	57	56.5	Vc2	69	63.5
30 ≤ $\bar{x}$ (Nv <sub>o</sub> ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 x $\bar{x}$ (Nv <sub>o</sub> )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 x $\bar{x}$ (Nv <sub>o</sub> )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 x $\bar{x}$ (Nv <sub>o</sub> )? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:  
(N and N<sub>o</sub>)**

N	Vc1	Vc2	$\bar{x}$ wm = 2.87 x10 <sup>8</sup> ; lg N = 8.46
10 <sup>-6</sup>	264	281	N <sub>o</sub> = N/10 ; lg N <sub>o</sub> = 7.46
10 <sup>-7</sup>	36	51	7.48 ≤ lg N <sub>o</sub> ≤ 7.90 ? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Control of weighted mean counts			Quotient = 6.26 Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

**Test:**

Product test conc.	Contact time	Diln. step	Vc1	Vc2	lg Na = lg ( $\bar{x}$ wm x10)	lg R (lg N <sub>o</sub> = 7.46)	Status
1:40	30 min	10 <sup>0</sup>	144	240	3.28	4.18	PASS
		10 <sup>-1</sup>	17	21			

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