



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: 27 July 2015 **Certificate date:** 29 July 2015

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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): 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.
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Experimental conditions

Concentration(s) of product tested: 1:50 & 1:100 v/v

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

Test organism(s): *Yersinia enterocolitica* (NCTC 12982)

Contact time(s): 5 min ± 10s & 30 min ± 10s

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 concentrations of 1:50 & 1:100 this sample of Safe4 Disinfectant Cleaner Concentrate passes the requirements of EN 1656:2009 for bactericidal activity in 5 minutes at 20°C, under high-level soiling conditions, against *Yersinia enterocolitica* (NCTC 12982).

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Results: *Yersinia enterocolitica* (NCTC 12982)

Validation and controls:

Validation suspension (N_{v0})			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	73	$\bar{x} =$	Vc1	61	$\bar{x} =$	Vc1	43	$\bar{x} =$	Vc1	38	$\bar{x} =$
Vc2	62	67.5	Vc2	59	60	Vc2	65	54	Vc2	57	47.5
30 $\leq \bar{x}$ (N_{v0}) \leq 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) \geq 0.5 x \bar{x} (N_{v0})? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) \geq 0.5 x \bar{x} (N_{v0})? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) \geq 0.5 x \bar{x} (N_{v0})? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension: (N and N_0)

N	Vc1	Vc2	\bar{x} wm = 2.54 x10 ⁸ ; lg N = 8.40
10 ⁻⁶	264	234	$N_0 = N/10$; lg $N_0 = 7.40$
10 ⁻⁷	29	32	7.17 \leq lg $N_0 \leq$ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts			Quotient = 8.16 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 $N_0 = 7.40$)	Status
1:50	5 min	0	0	< 140	< 2.15	> 5.25	PASS
1:100	5 min	0	0	< 140	< 2.15	> 5.25	PASS
1:50	30 min	0	0	< 140	< 2.15	> 5.25	PASS
1:100	30 min	0	0	< 140	< 2.15	> 5.25	PASS

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