

Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Product name: Sanigone Disinfectant Concentrate RM001

Batch or ref no:

Manufacturer or supplier: Sanigone Ltd
86-90 Paul Street, London, United Kingdom, EC2A 4NE

Sample ref: 15L/054 **Date received:** 23 November 2015

Date tested: 25 November 2015 **Certificate date:** 2 December 2015

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Analysis required: EN 1276:2009, Chemical disinfectants and antiseptics
- Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - 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 concentrations(s): Not disclosed

Notes

The test results in this report relate only to the sample(s) tested.
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Experimental conditions

Concentrations(s) of product tested: 1:100 v/v

Product diluent: Sterile hard water (300mg/1 CaCO₃)

Test organism(s): Pseudomonas aeruginosa (NCTC 13359)
Escherichia coli (NCTC 10418)
Staphylococcus aureus (NCTC 10788)
Enterococcus hirae (NCTC 13383)

Contact time(s): 5 min \pm 10s

Test temperature: 20°C \pm 1°C

Test conditions: Dirty

Interfering substance: 3.0g/1 bovine albumin

Method: Dilution-neutralisation

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

Incubation temperature: 37°C \pm 1°C

Conclusion

When tested at a concentration of 1:100 this sample of Sanigone Disinfectant Concentrate RM001 passes the requirements of EN 1276:2009 for bactericidal activity in 5 minutes at 20°C, under dirty conditions, against Pseudomonas aeruginosa (NCTC 13359), Escherichia coli (NCTC 10418), Staphylococcus aureus (NCTC 10788) and Enterococcus hirae (NCTC 13383).



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Results: *Pseudomonas aeruginosa* (NCTC 13359)

Validation and controls:

Validation suspension (Nv _o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	129	$\bar{x} =$	Vc1	64	$\bar{x} =$	Vc1	75	$\bar{x} =$	Vc1	61	$\bar{x} =$
Vc2	110	119.5	Vc2	71	67.5	Vc2	58	66.5	Vc2	79	70
30 ≤ \bar{x} (Nv _o) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension: (N and N_o)

N	Vc1	Vc2	\bar{x} (wm) = 3.05 x 10 ⁸ ; lg N = 8.48
10 ⁻⁶	318	296	N _o = N/10 ; lg N _o = 7.48
10 ⁻⁷	29	27	7.17 ≤ lg N _o ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 10.96 Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:	Product test conc.	Contact time	Vc1	Vc2	Na = (\bar{x} x10)	lg Na =	lg R = (lg N _o - lg Na)	Status
	1:100	5 min	0	0	< 140	< 2.15	> 5.33	PASS

Results: *Escherichia coli* (NCTC 10418)

Validation and controls:

Validation suspension (Nv _o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	109	$\bar{x} =$	Vc1	87	$\bar{x} =$	Vc1	58	$\bar{x} =$	Vc1	70	$\bar{x} =$
Vc2	112	110.5	Vc2	70	78.5	Vc2	69	63.5	Vc2	62	66
30 ≤ \bar{x} (Nv _o) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (A) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (B) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			\bar{x} (C) ≥ 0.5 x \bar{x} (Nv _o)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

Test suspension: (N and N_o)

N	Vc1	Vc2	\bar{x} (wm) = 2.93 x 10 ⁸ ; lg N = 8.47
10 ⁻⁶	304	285	N _o = N/10 ; lg N _o = 7.47
10 ⁻⁷	30	26	7.17 ≤ lg N _o ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 10.52 Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:	Product test conc.	Contact time	Vc1	Vc2	Na = (\bar{x} x10)	lg Na =	lg R = (lg N _o - lg Na)	Status
	1:100	5 min	0	0	< 140	< 2.15	> 5.32	PASS



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Results: Staphylococcus aureus (NCTC 10788)

Validation and controls:

Validation suspension (Nv _o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	115	$\bar{x} =$	Vc1	84	$\bar{x} =$	Vc1	72	$\bar{x} =$	Vc1	64	$\bar{x} =$
Vc2	106	110.5	Vc2	77	80.5	Vc2	74	73	Vc2	79	71.5
30 ≤ \bar{x} (Nv _o) ≤ 160 ?			\bar{x} (A) ≥ 0.5 x \bar{x} (Nv _o)?			\bar{x} (B) ≥ 0.5 x \bar{x} (Nv _o)?			\bar{x} (C) ≥ 0.5 x \bar{x} (Nv _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) = 3.25 x 10 ⁸ ; lg N = 8.51
10 ⁻⁶	327	319	N _o = N/10 ; lg N _o = 7.51
10 ⁻⁷	38	32	7.17 ≤ lg N _o ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 9.23
			Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:	Product test conc.	Contact time	Vc1	Vc2	Na = (\bar{x} x10)	lg Na =	lg R = (lg N _o - lg Na)	Status
	1:100	5 min	0	0	< 140	< 2.15	> 5.36	PASS

Results: Enterococcus hirae (NCTC 13383)

Validation and controls:

Validation suspension (Nv _o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
Vc1	107	$\bar{x} =$	Vc1	68	$\bar{x} =$	Vc1	70	$\bar{x} =$	Vc1	59	$\bar{x} =$
Vc2	89	98	Vc2	74	71	Vc2	76	73	Vc2	71	65
30 ≤ \bar{x} (Nv _o) ≤ 160 ?			\bar{x} (A) ≥ 0.5 x \bar{x} (Nv _o)?			\bar{x} (B) ≥ 0.5 x \bar{x} (Nv _o)?			\bar{x} (C) ≥ 0.5 x \bar{x} (Nv _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) = 2.85 x 10 ⁸ ; lg N = 8.45
10 ⁻⁶	281	299	N _o = N/10 ; lg N _o = 7.45
10 ⁻⁷	22	25	7.17 ≤ lg N _o ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = 12.34
			Between 5 and 15 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no

Test:	Product test conc.	Contact time	Vc1	Vc2	Na = (\bar{x} x10)	lg Na =	lg R = (lg N _o - lg Na)	Status
	1:100	5 min	0	0	< 140	< 2.15	> 5.30	PASS



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