Abbott Analytical

Consulting Scientists to the Disinfectant Industry

Test Report

Product name:	Antibac Cleaner Sample B		
Batch or ref no:	TZBS1 P154 20/07/2016		
Manufacturer or supplier:	Coventry Chemicals Ltd Woodhams Road, Siskin Drive, Coventry, CV3 4FX		
Sample ref:	16G/043	**Date received:**	22 July 2016
Date tested:	8 August 2016	**Certificate date:**	10 August 2016
Certificate no:	16G.043IB.CVC	**Page:**	1 of 6
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 concentration(s):	Not disclosed		

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:	Neat as received (test concentration 80%)
Product diluent:	N/A
Test organism(s):	*Pseudomonas aeruginosa* (NCTC 13359) *Escherichia coli* (NCTC 10418) *Staphylococcus aureus* (NCTC 10788) *Enterococcus hirae* (NCTC 13383)
Contact time(s):	30s ± 5s
Test temperature:	20°C ± 1°C
Test conditions:	Dirty
Interfering substance:	3.0g/l bovine albumin
Method:	Dilution-neutralisation
Neutralising solution:	30g/l Polysorbate 80 + 3g/l Lecithin + 1g/l L-histidine + 1g/l L-cysteine
Incubation temperature:	36°C ± 1°C

Remarks regarding the results

Products can only be tested at a concentration of 80% or less as some dilution is always produced by adding the test organisms and interfering substance.

Conclusion

At a test concentration of 80% this sample of Antibac Cleaner Sample B meets the requirements of EN 1276:2009 for bactericidal activity in 30 seconds at 20°C, under dirty conditions, against the referenced strains of *Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus* and *Enterococcus hirae*.

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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)		
$Vc1$	153	$\bar{x}$ =	$Vc1$	84	$\bar{x}$ =	$Vc1$	87	$\bar{x}$ =	$Vc1$	97	$\bar{x}$ =
$Vc2$	155	154	$Vc2$	89	86.5	$Vc2$	85	86	$Vc2$	105	101
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ yes ☐ no			$\bar{x}\ (A) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (B) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (C) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no		

Test suspension:
(N and N_o)

N	$Vc1$	$Vc2$	$\bar{x}$(wm) = 2.22 x10^{8} ; lg N = 8.35
10^{-6}	211	231	$N_o = N/10$; lg N_o = 7.35
10^{-7}	23	24	$7.17 \leq \lg N_o \leq 7.70$? ☒ yes ☐ no
Control of weighted mean counts (N)			Quotient = 9.40 Between 5 and 15 ? ☒ yes ☐ no

Test:

Product test conc.	Contact time	$Vc1$	$Vc2$	Na = ($\bar{x}$ x10)	lg Na =	lg R = (lg N_o − lg Na)	Status
80%	30s	0	0	< 140	< 2.15	> 5.20	PASS

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Results: *Escherichia coli* (NCTC 10418)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
$Vc1$	149	$\bar{x}$ =	$Vc1$	83	$\bar{x}$ =	$Vc1$	81	$\bar{x}$ =	$Vc1$	100	$\bar{x}$ =
$Vc2$	153	151	$Vc2$	89	86	$Vc2$	92	86.5	$Vc2$	98	99
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ yes ☐ no			$\bar{x}\ (A) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (B) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (C) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no		

Test suspension:
(N and N_o)

N	$Vc1$	$Vc2$	$\bar{x}$(wm) = 2.25 x10^{8} ; lg N = 8.35
10^{-6}	219	225	$N_o = N/10$; lg N_o = 7.35
10^{-7}	24	26	$7.17 \leq \lg N_o \leq 7.70$? ☒ yes ☐ no
Control of weighted mean counts (N)			Quotient = 8.88 Between 5 and 15 ? ☒ yes ☐ no

Test:

Product test conc.	Contact time	$Vc1$	$Vc2$	Na = ($\bar{x}$ x10)	lg Na =	lg R = (lg N_o − lg Na)	Status
80%	30s	0	0	< 140	< 2.15	> 5.20	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)		
$Vc1$	159	$\bar{x}$ =	$Vc1$	97	$\bar{x}$ =	$Vc1$	95	$\bar{x}$ =	$Vc1$	107	$\bar{x}$ =
$Vc2$	158	158.5	$Vc2$	93	95	$Vc2$	87	91	$Vc2$	105	106
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ yes ☐ no			$\bar{x}\ (A) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (B) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (C) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no		

Test suspension:
(N and N_o)

N	$Vc1$	$Vc2$	$\bar{x}$(wm) = 2.10 x10^{8} ; lg N = 8.32
10^{-6}	197	220	$N_o = N/10$; lg N_o = 7.32
10^{-7}	21	24	$7.17 \leq \lg N_o \leq 7.70$? ☒ yes ☐ no
Control of weighted mean counts (N)			Quotient = 9.27 Between 5 and 15 ? ☒ yes ☐ no

Test:

Product test conc.	Contact time	$Vc1$	$Vc2$	Na = ($\bar{x}$ x10)	lg Na =	lg R = (lg N_o − lg Na)	Status
80%	30s	0	0	< 140	< 2.15	> 5.17	PASS

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Results: *Enterococcus hirae* (NCTC 13383)

Validation and controls:

Validation suspension (Nv_o)			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C)		
$Vc1$	145	$\bar{x}$ =	$Vc1$	79	$\bar{x}$ =	$Vc1$	85	$\bar{x}$ =	$Vc1$	105	$\bar{x}$ =
$Vc2$	147	146	$Vc2$	82	80.5	$Vc2$	89	87	$Vc2$	96	100.5
$30 \leq \bar{x}\ (Nv_o) \leq 160$? ☒ yes ☐ no			$\bar{x}\ (A) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (B) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no			$\bar{x}\ (C) \geq 0.5 \times \bar{x}\ (Nv_o)$? ☒ yes ☐ no		

Test suspension:
(N and N_o)

N	$Vc1$	$Vc2$	$\bar{x}$(wm) = 2.00 x10^{8} ; lg N = 8.30
10^{-6}	197	205	$N_o = N/10$; lg N_o = 7.30
10^{-7}	19	20	$7.17 \leq \lg N_o \leq 7.70$? ☒ yes ☐ no
Control of weighted mean counts (N)			Quotient = 10.31 Between 5 and 15 ? ☒ yes ☐ no

Test:

Product test conc.	Contact time	$Vc1$	$Vc2$	Na = ($\bar{x}$ x10)	lg Na =	lg R = (lg N_o − lg Na)	Status
80%	30s	0	0	< 140	< 2.15	> 5.15	PASS

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