M and L Laboratory Services (Pty) Ltd
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Certificate/Report

RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

COMPANY NAME : FORTY THOUSAND AND 75KM (PTY) LTD

ADDRESS : PRIVATE BAG X2007, MENLYN, PRETORIA, GAUTENG, 0063

SUBJECT : QUANTITATIVE SUSPENSION TEST FOR THE EVALUATION OF BACTERICIDAL ACTIVITY OF CHEMICAL DISINFECTANTS AND ANTISEPTICS SANS 51276 (EN1276): DILUTION-NEUTRALIZATION METHOD

MARKED : STERAMINE 6-Q TABLETS MULTI-PURPOSE SANITIZER 0113

ACTIVE INGREDIENT : DIMETHYL BENZYL AMMONIUM CHLORIDE DIHYDRATE 200PPM

APPEARANCE : LIGHT PURPLE TABLET

NEUTRALIZING AGENT : NEUTRALIZING FLUID

STORAGE CONDITIONS : STORE IN A COOL, DRY PLACE AWAY FROM DIRECT SUNLIGHT

INSTRUCTED BY : VICTOR

LAB NO. : P231331

RECEIVED ON : 09/07/2020

DATE ANALYSED : 09/07/2020

EXPERIMENTAL CONDITIONS:

Obligatory conditions test organisms:	*Enterococcus hirae* ATCC 10541
	Escherichia coli ATCC 10536
	Pseudomonas aeruginosa ATCC 15442
	Staphylococcus aureus ATCC 6538
Test temperature:	20°C
Contact time:	5 minutes
Interfering substance:	0.3g/l Bovine serum albumin (Clean conditions)
Test incubation temperature:	37°C

PASS REQUIREMENTS:

The product shall demonstrate at least a 5 decimal log reduction when diluted with hard water/or undiluted and tested under obligatory test conditions. At least one of the test concentrations will demonstrate a log reduction of less than 5 log.

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TEST VALIDITY

For each test organism:

- N is between $1.5x10^8$ and $5.0x10^8$ ($8.17 \leq \log N \leq 8.70$)
- N_0 is between $1.5x10^7$ and $5.0x10^7$ ($7.17 \leq \log N \leq 7.70$)
- N_{10} is between 30 and 160 ($3.0x10^1$ and $1.6x10^2$)
- A, B, C are equal to or greater than $0.5xN_{V0}$
- Control of weighted mean counts: quotient is not lower than 5 and not higher than 15

RESULTS:

***Escherichia coli* ATCC 10536**

Table 1: N and N_0 values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N_0 (N/10)	Log N_0
10^{-6}	320	312	$3.8x10^8$	8.58	$3.8x10^7$	7.58
10^{-7}	42	48				
Is Log N between 8.17 and 8.70: **Yes**						
Is Log N_0 between 7.17and 7.70: **Yes**						
Control of weighted mean counts: **7.02**						

Table 2: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No: 7.58)
1ppm	>330	>330	>3300	>3.52	<4.06
200ppm	<14	<14	<140	<2.15	>5.43

***Pseudomonas aeruginosa* ATCC 15442**

Table 3: N and N_0 values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N_0 (N/10)	Log N_0
10^{-6}	304	294	$3.2x10^8$	8.51	$3.2x10^7$	7.51
10^{-7}	32	36				
Is Log N between 8.17 and 8.70: **Yes**						
Is Log N_0 between 7.17and 7.70: **Yes**						
Control of weighted mean counts: **8.79**						

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Table 4: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.51)
1ppm	>330	>330	>3300	>3.52	<3.99
200ppm	<14	<14	<140	<2.15	>5.36

***Staphylococcus aureus* ATCC 6538**

Table 5: N and N_0 values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N_0 (N/10)	Log N_0
10^{-6}	320	333	$3.7x10^8$	8.57	$3.7x10^7$	7.57
10^{-7}	40	44				
Is Log N between 8.17 and 8.70: **Yes**						
Is Log N_0 between 7.17and 7.70: **Yes**						
Control of weighted mean counts: **7.77**						

Table 6: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.54)
1ppm	>330	>330	>3300	>3.52	<4.05
200ppm	<14	<14	<140	<2.15	>5.42

***Enterococcus hirae* ATCC 10541**

Table 7: N and N_0 values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N_0 (N/10)	Log N_0
10^{-6}	298	281	$3.1x10^8$	8.49	$3.1x10^7$	7.49
10^{-7}	36	30				
Is Log N between 8.17 and 8.70: **Yes**						
Is Log N_0 between 7.17and 7.70: **Yes**						
Control of weighted mean counts: **8.77**						

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Table 8: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave Vc1&Vc2x10)	Log Na	Log Reduction (No:7.49)
1ppm	>330	>330	>3300	>3.52	<3.97
200ppm	<14	<14	<140	<2.15	>5.34

VALIDATIONS AND CONTROLS

Table 9: *Enterococcus hirae* ATCC 10541

Validation suspension			Experimental Conditions Control A			Neutralizer Control B			Method Validation C (Neat product concentration		
		Ave			Ave			Ave			Ave
Vc1	59	53	Vc1	38	41	Vc1	45	45	Vc1	39	41
Vc2	47		Vc2	44		Vc2	45		Vc2	43	
0.5x53 (Nvo)= 26.5											
Is the Nvo value between 30-160: **YES**											
Is the Experimental Condition A≥0.5xNvo value: **YES**											
Is the Neutralizer Condition B≥0.5xNvo value: **YES**											
Is the Method Validation C≥0.5xNvo value: **YES**											

Table 10: *Escherichia coli* ATCC 10536

Validation suspension			Experimental Conditions Control A			Neutralizer Control B			Method Validation C (Neat product concentration		
		Ave			Ave			Ave			Ave
Vc1	51	48	Vc1	36	37.5	Vc1	62	64	Vc1	53	50.5
Vc2	45		Vc2	39		Vc2	66		Vc2	48	
0.5x48 (Nvo)= 24											
Is the Nvo value between 30-160: **YES**											
Is the Experimental Condition A≥0.5xNvo value: **YES**											
Is the Neutralizer Condition B≥0.5xNvo value: **YES**											
Is the Method Validation C≥0.5xNvo value: **YES**											

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Table 11: *Pseudomonas aeruginosa* ATCC 15442

Validation suspension			Experimental Conditions Control A			Neutralizer Control B			Method Validation C (Neat product concentration		
		Ave			Ave			Ave			Ave
Vc1	52	49	Vc1	74	70	Vc1	62	57	Vc1	44	41.5
Vc2	46		Vc2	66		Vc2	52		Vc2	39	
0.5x49 (Nvo)= 24.5											
Is the Nvo value between 30-160: **YES**											
Is the Experimental Condition A≥0.5xNvo value: **YES**											
Is the Neutralizer Condition B≥0.5xNvo value: **YES**											
Is the Method Validation C≥0.5xNvo value: **YES**											

Table 12: *Staphylococcus aureus* ATCC 6538

Validation suspension			Experimental Conditions Control A			Neutralizer Control B			Method Validation C (Neat product concentration		
		Ave			Ave			Ave			Ave
Vc1	70	74	Vc1	64	65	Vc1	42	45	Vc1	72	69.5
Vc2	78		Vc2	66		Vc2	48		Vc2	67	
0.5x 72 (Nvo)= 36											
Is the Nvo value between 30-160: **YES**											
Is the Experimental Condition A≥0.5xNvo value: **YES**											
Is the Neutralizer Condition B≥0.5xNvo value: **YES**											
Is the Method Validation C≥0.5xNvo value: **YES**											

Conclusion

The product tested at **200ppm complied** with the criteria indicated under the "Pass Requirements" of SANS 51276 (EN 1276) standard (obligatory conditions) which requires at least a 99.999% kill (5 log reduction).

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