



M&L LABS

Ref. No : 11088381

Issued at : Johannesburg

Date : 02/06/2020

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Certificate/Report

RESULTS REPORTED RELATED ONLY TO ITEMS TESTED

COMPANY NAME : HEALTH AND HYGIENE PTY LTD
ADDRESS : CNR LEADER & HOEF SMID ROAD, STORMILL EXT 10, ROODEPOORT
SUBJECT : QUANTITATIVE SUSPENSION TEST FOR THE EVALUATION OF
SPORICIDAL ACTIVITY OF CHEMICAL DISINFECTANTS USED IN
FOOD, INDUSTRIAL, DOMESTIC AND INSTITUTIONAL AREAS SANS
53704 (EN13704:2002): DILUTION- NEUTRALIZATION METHOD
MARKED : F10 SUPER CONCENTRATE DISINFECTANT BATCH 220441
ACTIVE INGREDIENT : QUATERNARY AMMONIUM AND BIGUANIDINE COMPOUNDS 5.8%
APPEARANCE : CLEAR LIQUID
STORAGE CONDITIONS : STORE BELOW 30°C IN DRY CONDITIONS
NEUTRALIZING AGENT : NEUTRALIZING FLUID
INSTRUCTED BY : XOLANI
LAB NO. : P231126
RECEIVED ON : 21/05/2020
DATE ANALYSED : 25/05/2020

EXPERIMENTAL CONDITIONS:

Obligatory conditions
test organisms:

Bacillus subtilis ATCC 6633

Test temperature:

20°C

Contact time:

30 minutes

Interfering substance:

0.3g/l Bovine serum albumin (Clean conditions)

Test incubation temperature:

30°C

PASS REQUIREMENTS:

The product shall demonstrate at least a 3 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 3 log.

TECHNICAL SIGNATORY
T. W. GABAZA

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Authorised Signature (original blue ink)



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Bacillus subtilis ATCC 6633

Table 19: N and N_0 values

Dilution	Vc1	Vc2	Average N(wm)	Log N	N ₀ (N/10)	Log N ₀
10 ⁻⁴	192	184	2.4 x10 ⁶	6.38	2.4 x10 ⁵	5.38
10 ⁻⁵	32	30				
Is Log Nbetween 7.17 and 7.70: Yes						
Is Log N ₀ between 6.17and 6.70: Yes						
Control of weighted mean counts: 6.06						

Table 20: Test Log Reduction Values

Product Concentration	Vc1	Vc2	Na (Ave $Vc1 \& Vc2 \times 10$)	Log Na	Log Reduction (No: 5.38)
0.01%	>330	>330	>3300	>3.52	<1.86
1%	<14	<14	<140	<2.15	>3.23
2%	<14	<14	<140	<2.15	>3.23

VALIDATIONS AND CONTROLS

Table 21: *Bacillus subtilis* ATCC 6633

Validation suspension			Experimental Conditions Control A			Neutralizer Control B			Method Validation C (Neat product concentration)		
		Ave			Ave			Ave			Ave
Vc1	48	52	Vc1	42	39.5	Vc1	40	35	Vc1	52	46.5
Vc2	56		Vc2	37		Vc2	30		Vc2	41	
0.5x 52 (Nvo)= 26											
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 **1% v/v** complied with the criteria indicated under the "Pass Requirements" of SANS 5370 (EN 13704) standard (obligatory conditions) which requires at least a 99.9% kill (3 log reduction)

TECHNICAL SIGNATORY
 T. NGABAZA

Authorised Signature (original blue ink)