



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s) : One sample of Lavisan

Received from: GHS Direct Ltd
Unit 2, Cambria Close, Charfleets Industrial Estate,
Canvey Island, SS8 0JX

Date received: 22 May 2013 **Date tested:** 22 May 2013

Certificate no: 13E.131SB20.GHS **Certificate date:** 24 May 2013*

Sample ref: 13E/131 **Page:** 1 of 2

Analysis required: EN 13697:2001, Chemical disinfectants and antiseptics -
Quantitative non-porous surface test for the evaluation of
bactericidal and/or fungicidal activity of chemical
disinfectants used in food, industrial, domestic and
institutional areas - Test method and requirements without
mechanical action (phase 2, step 2)

Product stored at: Room temperature

Active substance: Not declared

Test conditions: Dirty

Interfering substance: 3.0g/l bovine albumin

Product test concentration: 1:120 v/v

Product diluent used during test: Sterile hard water 300mg/l CaCO₃

Appearance of product (dilution): Clear, colourless solution

Contact time: 5 minutes

Test temperature: 20°C ± 0.5°C

Neutralising solution: 3% Polysorbate 80, 3g/l Lecithin,
1g/l L-histidine, 1g/l L-cysteine

Incubation temperature: 37°C ± 1°C

Identification of bacterial strain(s) used:

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Escherichia coli</i>	NCTC 10418
<i>Staphylococcus aureus</i>	NCTC 10788
<i>Enterococcus hirae</i>	NCIMB 8192

* Re-issued 23 September 2015 with amended product name.

D C Watson BSc, CBiol, MSB, MIFST, ACIEHO

Unit 2, Hickmans Road,
Birkenhead, CH41 1JH,
United Kingdom

Tel: +44 (0)151 324 1276
email: enqs@abbottanalytical.co.uk
www.abbottanalytical.co.uk



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Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Escherichia coli</i>		<i>Staphylococcus aureus</i>		<i>Enterococcus hirae</i>		
Test Suspension (N = lg 0.05x)	10 ⁻⁶	Vc1 221	Vc2 256	Vc1 293	Vc2 243	Vc1 238	Vc2 272	Vc1 222	Vc2 241
	10 ⁻⁷	Vc1 22	Vc2 28	Vc1 28	Vc2 32	Vc1 25	Vc2 30	Vc1 19	Vc2 25
		N = 7.08		N = 7.13		N = 7.11		N = 7.06	
Toxicity Control (NC = lg 10x)	10 ⁻⁴	Vc1 206	Vc2 232	Vc1 270	Vc2 232	Vc1 228	Vc2 266	Vc1 217	Vc2 255
		NC = 7.34		NC = 7.40		NC = 7.39		NC = 7.37	
		N - NC ≤ 2		N - NC ≤ 2		N - NC ≤ 2		N - NC ≤ 2	
Dilution Control (NT = lg 10x)	10 ⁻⁴	Vc1 230	Vc2 204	Vc1 264	Vc2 250	Vc1 238	Vc2 254	Vc1 204	Vc2 270
		NT = 7.34		NT = 7.41		NT = 7.39		NT = 7.37	
		NC - NT ≤ ±0.3		NC - NT ≤ ±0.3		NC - NT ≤ ±0.3		NC - NT ≤ ±0.3	
Water Control (Nc = lg 10x)	10 ⁻⁴	Vc1 235	Vc2 272	Vc1 266	Vc2 215	Vc1 210	Vc2 248	Vc1 202	Vc2 194
	10 ⁻⁵	Vc1 25	Vc2 31	Vc1 28	Vc2 25	Vc1 20	Vc2 23	Vc1 24	Vc2 24
		Nc = 7.40		Nc = 7.38		Nc = 7.36		Nc = 7.30	
Results (Nd = lg 10x) (ME = Nc - Nd)	10 ⁰	Vc1 234	Vc2 261	Vc1 205	Vc2 160	Vc1 0	Vc2 0	Vc1 0	Vc2 0
	10 ⁻¹	Vc1 29	Vc2 33	Vc1 23	Vc2 27	Vc1 0	Vc2 0	Vc1 0	Vc2 0
		Nd = 3.39		Nd = 3.26		Nd < 0.70		Nd < 0.70	
	ME = 4.01		ME = 4.12		ME > 6.66		ME > 6.60		
Pass: ME ≥ 4	PASS		PASS		PASS		PASS		

N = lg of cfu/0.05ml of test suspension
Nd = lg of cfu per test surface

Nc = lg of cfu per control surface
ME = microbial effect

Requirements & Conclusion:

This sample of Lavisian, when diluted to 1:120 v/v, passes the requirements of EN 13697:2001 for bactericidal activity in 5 minutes at 20°C under dirty conditions against all of the reference organisms detailed.

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