



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s) : One sample of GreenGold

Received from: Busy Cleaning Ltd, Charter Court, Phoenix Way, Swansea SA7 9FS

Date received: 11 November 2009 **Date tested:** 12 November 2009

Certificate no: 09L.063BB-KR.ENZ **Certificate date:** 16 November 2009

Sample ref: 9L/063 **Page:** 1 of 2

Analysis required: EN 1040, Chemical disinfectants and antiseptics -
Quantitative suspension test for the evaluation of basic
bactericidal activity of chemical disinfectants and
antiseptics - Test method and requirements (phase 1)

Product stored at: Room temperature

Active substance: Not declared

Test conditions: N/A

Interfering substance: N/A

Product test concentration: 10.0% v/v

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

Contact time: 5 minutes

Test temperature: 20°C ± 0.5°C

Neutralising solution: 30g/l polysorbate 80, 3g/l lecithin,
1g/l histidine, 1g/l cysteine

Incubation temperature: 37°C ± 1°C

**Identification of bacterial strain(s)
used:** *Pseudomonas aeruginosa* ATCC 15442
Staphylococcus aureus NCTC 6571

D C Watson



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

16 November 2009

Certificate No: 09L.063BB-KR.ENZ

Page: 2 of 2

Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Staphylococcus aureus</i>	
Validation Suspension	10 ⁻¹	Vc1 366 Vc2 334	Vc1 636 Vc2 647	
		Nv0 3.50 x10 ³	Nv0 6.42 x10 ³	
Experimental Control	10 ⁰	Vc1 366 Vc2 342	Vc1 514 Vc2 540	
		A 3.54 x10 ²	A 5.27 x10 ²	
Neutraliser Control	10 ⁰	Vc1 355 Vc2 338	Vc1 522 Vc2 476	
		B 3.47 x10 ²	B 4.99 x10 ²	
Method Validation	10 ⁰	Vc1 352 Vc2 310	Vc1 538 Vc2 470	
		C 3.31 x10 ²	C 5.04 x10 ²	
Test Suspension	10 ⁻⁶	Vc1 312 Vc2 255	Vc1 480 Vc2 736	
	10 ⁻⁷	Vc1 28 Vc2 23	Vc1 78 Vc2 63	
		N 2.69 x10 ⁸	N 6.57 x10 ⁸	
Results	10 ⁻²	Vc 0	Vc 0	
		Na < 1.00 x10 ²	Na < 1.00 x10 ²	
		R > 2.69 x10 ⁶	R > 6.57 x10 ⁶	
Log ₁₀ Reduction	> 6.43		> 6.82	

Vc = Viable count

Nv = cfu/ml in the validation suspension

N = cfu/ml in the test suspension

Na = cfu/ml in the test mixture

R = Reduction in viability

Requirements & Conclusion:

To pass EN 1040 a log₁₀ reduction of at least 5 is required.

This batch of GreenGold, when diluted to 10.0% v/v, passes the requirements of EN 1040 for bactericidal activity in 5 minutes at 20°C against the reference organisms detailed.

D C Watson

D C Watson BSc, CBiol, MSB, MIFST, ACIEHO
PO Box 95, New Ferry, Wirral, CH62 6HA
Tel: 0151 637 3331 Mob: 07767 871275
email: abbottanalytical@hotmail.co.uk