



# 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:** 16 November 2009

**Certificate no:** 09L.063Mr-KR.ENZ      **Certificate date:** 18 November 2009

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

**Analysis required:** EN 1276, 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)

**Product stored at:** Room temperature

**Active substance:** Not declared

**Test conditions:** 'Dirty'

**Interfering substance:** 3.0g/l bovine albumin

**Product test concentration:** 10.0% v/v

**Product diluent used during test:** Sterile hard water 300mg/l CaCO<sub>3</sub>

**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:** Methicillin-resistant      ATCC 33591  
*Staphylococcus aureus*

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## Test results:

Test Organism	MRSA	
Validation Suspension	10 <sup>-1</sup>	Vc1 366 Vc2 382
		Nv0 3.74 x10 <sup>3</sup>
Experimental Control	10 <sup>0</sup>	Vc1 333 Vc2 370
		A 3.52 x10 <sup>2</sup>
Neutraliser Control	10 <sup>0</sup>	Vc1 380 Vc2 322
		B 3.51 x10 <sup>2</sup>
Method Validation	10 <sup>0</sup>	Vc1 346 Vc2 318
		C 3.32 x10 <sup>2</sup>
Test Suspension	10 <sup>-6</sup>	Vc1 480 Vc2 568
	10 <sup>-7</sup>	Vc1 28 Vc2 45
		N 4.45 x10 <sup>8</sup>
Results	10 <sup>-2</sup>	Vc 0
		Na <1.00 x10 <sup>2</sup>
		R >4.45 x10 <sup>6</sup>
Log <sub>10</sub> Reduction	> 6.65	

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 1276 a log<sub>10</sub> reduction of at least 5 is required.

This batch of GreenGold, when diluted to 10.0% v/v, passes the requirements of EN 1276 for bactericidal activity in 5 minutes at 20°C under 'dirty' conditions against the reference organism 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