



# 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:** 23 July 2010      **Date tested:** 23 July 2010

**Certificate no:** 10G.130Lm-KR.CLE      **Certificate date:** 26 July 2010

**Sample ref:** 10G/130      **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:** 20% 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:** *Listeria monocytogenes*      NCTC 11994

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## Test results:

Test Organism	<i>Listeria monocytogenes</i>	
Validation Suspension	10 <sup>-1</sup> Vc1 334	Vc2 282
	Nv0 3.08	x10 <sup>3</sup>
Experimental Control	10 <sup>0</sup> Vc1 276	Vc2 254
	A 2.65	x10 <sup>2</sup>
Neutraliser Control	10 <sup>0</sup> Vc1 268	Vc2 248
	B 2.58	x10 <sup>2</sup>
Method Validation	10 <sup>0</sup> Vc1 236	Vc2 260
	C 2.48	x10 <sup>2</sup>
Test Suspension	10 <sup>-6</sup> Vc1 270	Vc2 214
	10 <sup>-7</sup> Vc1 24	Vc2 31
	N 2.59	x10 <sup>8</sup>
Results	10 <sup>-2</sup> Vc1 0	Vc2 0
	Na < 1.00	x10 <sup>2</sup>
	R > 2.59	x10 <sup>6</sup>
Log <sub>10</sub> Reduction	> 6.41	

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 20% 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.

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