





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 SA79FS

Date received: 23 November 2009 Date tested: 27 November 2009

Certificate no: 09L.148SF-KR.ENZ Certificate date: 4 December 2009

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Analysis required: EN 13697, 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: 'Clean'

Interfering substance: 0.3g/l bovine albumin +

1g/l tryptone

Product test concentration: 10.0% v/v

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

Contact time: 15 minutes

Test temperature:  $20^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ 

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

1g/l histidine, 1g/l cysteine

Incubation temperature:  $30^{\circ}C \pm 1^{\circ}C$ 

Identification of fungal strain(s)Aspergillus nigerNCPF2275

**used:** Candida albicans NCPF 3179



# Abbott Analytical



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#### Test results:

Test Organism		Aspergillus				Candida			
		niger				albicans			
				_				_	
	10 -1	Vc1	254	Vc2	312	Vc1	328	Vc2	416
Validation									
Suspension		Nv0	2.83	x10	3	Nv0	3.72	x10	3
	10 0	Vc1	178	Vc2	196	Vc1	300	Vc2	344
Experimenta	al								
Control		A	1.87	x10	2	A	3.22	x10	2
	10 0	Vc1	184	Vc2	162	Vc1	338	Vc2	292
Neutralise	2								
Control		В	1.73	x10	2	В	3.15	x10	2
Method	10 °	Vc1	200	Vc2	216	Vc1	300	Vc2	270
Validation		C	2.08	x10	. 2	C	2.85	x10	2
validacion			2.08	XIU	-		2.83	XIU	-
	10 -5	Vc1	176	Vc2	200	Vc1	276	Vc2	314
	10 -6	Vc1	23	Vc2	28	Vc1	34	Vc2	40
Surface									
Inoculum		N	2.22	x10	7	N	3.33	x10	7
	10 -1	Vc	0			Vc	0		
Results									
		Na <	1.00	x10	1	Na <	1.00	x10	1
		R >	2.22	x10	6	R >	3.33		
Log <sub>10</sub> Reduction		>	6.35			>	6.52		

Vc = Viable count

Nv = cfu/ml in the validation suspension

N = cfu/ml in the surface inoculum Na = cfu/ml in the test mixture R = Reduction in viability

#### Requirements & Conclusion:

To pass EN 13697 a  $\log_{10}$  reduction of at least 3 is required.

This batch of GreenGold, when diluted to 10.0% v/v, passes the requirements of EN 13697 for fungicidal activity in 15 minutes at  $20^{\circ}\text{C}$  under 'clean' conditions against the reference organisms detailed.

D C Watson