

# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

### Certificate of Analysis

Sample(s): One sample of GreenGold Concentrate

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

Date received: 16 May 2011 Date tested: 18 May 2011

Certificate no: 11E.040Sp-KR.CLE Certificate date: 20 May 2011

**Sample ref:** 11E/040 **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 CaCO3

Contact time: 5 minutes

Test temperature: 20°C  $\pm$  0.5°C

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

1g/l histidine, 1g/l cysteine

Incubation temperature: 30°C ± 1°C

**Identification of bacterial** Streptococcus pneumoniae NCTC 12977

strain(s) used:



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#### <u>Test results:</u>

Test	Streptococcus				
organism		pneumoniae			
Validation		Vc1	352	Vc2	328
Suspension					
(Nv <sub>o</sub> )		ÿ =	340		
Experimenta	1	Vc1	298	Vc2	310
Control					
(A)		ÿ =	304	≥ 0.	5Nv <sub>o</sub>
Neutraliser Control	•	Vc1	286	Vc2	324
(B)		ÿ =	305	≥ n	5Nv.
(5)			303	_ 0.	J14 V 6
Method		Vc1	300	Vc2	282
Validation					
(C)		: Х =	291	≥ 0.	5Nv <sub>o</sub>
Test	10 -6	Vc1	312	Vc2	330
Suspension	10 -7	Vc1	2.5		2.1
	10 '	ACI	35	Vc2	3 L
(N)		₩ =	3.22	x 10	8
		lg N	=	8.51	
$(N_{\circ} = 0.1N)$		lg N	。 =	7.51	
Results	10 0	Vc1	<14	Vc2	<14
(Na)		10¤	<	140	
(2102)			a <		
(R)		_	>		
Pass: lg R ≥ 5		PASS			

 $\label{eq:vc} \begin{array}{lll} \text{Vc} = \text{plate count per ml} \\ \ddot{x} = \text{average of Vc1 and Vc2} \\ \ddot{w} = \text{weighted mean of } \ddot{x} \\ \text{R} = \text{reduction (lg R = lg N}_{\circ} - \text{lg Na)} \end{array}$ 

#### Conclusion:

This batch of GreenGold Concentrate, 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.