





Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s):	One sample of GreenGold Concentrate			
Received from:	Busy Cleaning Ltd,	Charter Court, Phoen	ix Way, Swansea, SA7 9FS	
Date received:	16 May 2011	Date tested:	8 June 2011	
Certificate no:	11E.040Eo-KR.CLE	Certificate date:	10 June 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 $CaCO_3$		
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:		Escherichia coli 01	57:H7 NCTC 12900	

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<u>Test results:</u>

Test	Escherichia		
Organism	coli	0157:Н7	
Validation	Vc1	108	Vc2 132
Suspension	L	100	
(Nv _°)	ÿ =	120	
Experimental	Vc1	96	Vc2 104
Control			
(A)	ж =	100	\geq 0.5Nv _o
Neutraliser	Vc1	94	Vc2 82
Control			
(B)	₩ =	88	\geq 0.5Nv _o
Method	Vc1	106	Vc2 86
Validation			
(C)	ÿ =	96	\geq 0.5Nv _o
	Vc1	244	Vc2 230
Suspension			
10-/	Vc1	30	Vc2 26
(N)	₩ =	2.41	x 10 ⁸
	lg N	=	8.38
$(N_{\circ} = 0.1N)$	lg N		7.38
Results	Vc1	0	Vc2 0
(Na)	10ÿ	<	140
	lg Na	a <	2.15
(R)	lg R	>	5.24
Pass: lg R ≥ 5		PA	.SS

Vc = plate count per ml
\ddot{x} = average of Vc1 and Vc2
₩ = weighted mean of X
R = reduction (lg R = lg N_{\circ} - lg $Na)$

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.

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