

bbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s):

One sample of Cleenol Alcohol Free Hand Sanitiser

Received from:

Cleenol Group Ltd. Beaumont Road, Banbury, OX16 1RB

Date received:

16 November 2011

Date tested:

21 November 2011

Certificate no:

11L.037B.CLG

Certificate date:

25 November 2011

Sample ref:

11L/037

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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:

Neat as received

(80% in test suspension)

Product diluent used during test:

N/A

Contact time:

1 minute & 5 minutes

Test temperature:

20°C ± 0.5°C

Neutralising solution:

30g/l polysorbate 80, 3g/l lecithin,

1q/l histidine, 1q/l cysteine

Incubation temperature:

 $37^{\circ}C \pm 1^{\circ}C$

Identification of bacterial

Methicillin-resistant

NCTC 12493

strain(s) used:

Staphylococcus aureus



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25 November 2011

Certificate No: 11L.037B.CLG

Test results: Contact time 1 minute

Test	MRSA
Organism	
Validation	Vc1 106 Vc2 134
Suspension	
(Nv _o)	ж = 120
Experimental	Vc1 112 Vc2 128
Control	
(A)	$\ddot{x} = 120 \ge 0.5 \text{Nv}_{\circ}$
Neutraliser	Vc1 104 Vc2 142
Control	
(B)	$\ddot{x} = 123 \ge 0.5 \text{Ny}_{\circ}$
Method	Vc1 130 Vc2 114
Validation	
(C)	$\ddot{x} = 122 \ge 0.5 \text{Nv}_{\circ}$
	⁻⁶ Vc1 224 Vc2 268
Suspension	
10	⁻⁷ Vc1 34 Vc2 25
(N)	$\ddot{w} = 2.50 \times 10^{8}$
	lg N = 8.40
$(N_o = 0.1N)$	$lg N_o = 7.40$
Results	Vc1 11 Vc2 15
(Na)	10¤ < 150
	lg Na < 2.18
(R)	lg R > 5.22
Pass: lg R ≥ !	5 PASS

Vc = plate count per ml

 \ddot{x} = average of Vc1 and Vc2

 \ddot{w} = weighted mean of \ddot{x}

R = reduction (lg R = lg N_o - lg Na)

Requirements & Conclusion:

This batch of Cleenol Alcohol Free Hand Sanitiser, when used neat, passes the requirements of EN 1276 for bactericidal activity in 1 minute at 20°C under dirty conditions against the reference organism detailed.

D C Watson



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25 November 2011

Certificate No: 11L.037B.CLG

Test results: Contact time 5 minutes

Test	MRSA
Organism	
Validation	Vc1 106 Vc2 134
Suspension	
(Nv _o)	x = 120
Experimental	Vc1 112 Vc2 128
Control	
(A)	$\ddot{x} = 120 \ge 0.5 \text{Nv}_{\circ}$
Neutraliser Control	Vc1 104 Vc2 142
(B)	$\ddot{x} = 123 \ge 0.5 \text{Ny}_{\circ}$
Method Validation	Vc1 130 Vc2 114
(C)	$\ddot{x} = 122 \ge 0.5 \text{Ny}_{o}$
Test 10 -	Vc1 224 Vc2 268
	Vc1 34 Vc2 25
(N)	$\ddot{w} = 2.50 \times 10^{8}$
	lg N = 8.40
$(N_o = 0.1N)$	$lg N_o = 7.40$
Results	Vc1 0 Vc2 0
(Na)	10¤ < 140
	lg Na < 2.15
(R)	lg R > 5.25
Pass: lg R ≥ 5	PASS

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

Requirements & Conclusion:

This batch of Cleenol Alcohol Free Hand Sanitiser, when used neat, 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