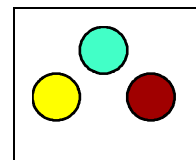


Abbott Analytical



Consulting Scientists to the Disinfectant Industry

6th April 2008

Certificate of Analysis

Samples: One sample of Teknon Biocleanse Concentrate TK200 received from Quadralene Ltd. Bateman Street, Derby. DE23 8JL 7th March 2008

Certificate No: 08C.030.QAD

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Sample Ref: 8c / 030

Analysis Required: Activity against EN 1650 under 'dirty' conditions.

Samples Tested: 2nd April 2008

Product stored at room temperature in the dark.
Active substance: Not declared.

Experimental conditions:

Product test concentrations - 5% v/v

Product diluent used during test - Sterile hard water 300mg/kg CaCO₃

Contact time - 1 min, 5 min & 15 min

Test Temperature - 20⁰C ± 0.5⁰C

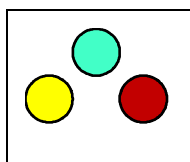
Interferring substance - 3.0g/l bovine albumin serum

Neutralising solution - 3% Tween 80, 3% Saponin,
0.1% Histidine, 0.1% Cysteine

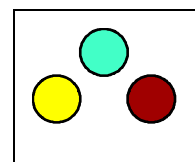
Temperature of incubation - 30⁰C ± 1⁰C

Identification of fungal strains used - Aspergillus niger NCTC 2275
Candida albicans NCTC 3179

D C Watson



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Test Results

Validation test	Aspergillus niger	Candida albicans
Fungal suspension	Vc 184, 102 Nv 1.43×10^3	Vc 174, 232 Nv 2.03×10^3
Experimental conditions	Vc 166, 186 A 1.76×10^2	Vc 216, 188 A 2.02×10^2
Neutraliser control	Vc 168, 182 B 1.75×10^2	Vc 240, 202 B 2.21×10^2
Dilution-neutralisation control	Vc 174, 190 C 1.82×10^2	Vc 236, 192 C 2.14×10^2
Fungal Test Suspension	10^{-6} 120 155 10^{-7} 34 26 N 2.18×10^8	10^{-6} 226 183 10^{-7} 20 26 N 2.17×10^8
Test results		
1 min Vc	0	0
Na	<100	<100
R	$>8.95 \times 10^6$	$>2.17 \times 10^6$
5 min Vc	0	0
Na	<100	<100
R	$>8.95 \times 10^6$	$>2.17 \times 10^6$
15 min Vc	0	0
Na	<100	<100
R	$>8.95 \times 10^6$	$>2.17 \times 10^6$

Vc = Viable Count.

N = Number of cfu/ml of the fungal test suspension.

Nv = Number of cfu in fungal suspension.

R = Reduction in viability.

Na = Number of cfu/ml in the test mixture

Conclusion: According to EN1650 this batch of Biocleanse when diluted 1:20 in sterile hard water possesses satisfactory fungicidal activity in 1 minute at 20°C under dirty conditions (3.0g/l bovine albumin) for the reference organisms detailed.

DC Watson