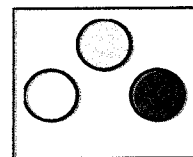


Abbott Analytical



Consulting Scientists to the Disinfectant Industry

15th January 2007

Certificate of Analysis

Samples: One sample of RBT 5020E received from Sentinel International Ltd, Unit 1 Batsworth Road, Mitcham, Surrey, CR4 3BX 8th January 2007

Certificate No: 07A.035a.SEN

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Sample Ref: 7a / 035

Analysis Required: BS EN 13697 Quantitative Non-porous surface test for evaluation of bactericidal activity of chemical disinfectants.

Samples Tested: 11th January 2007

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

Experimental conditions:

Product test concentrations - 0.4% v/v

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

Contact time - 2 min & 5 min


Test Temperature - 20°C ± 0.5°C

Interfering substance - 3.0g/l Bovine albumin

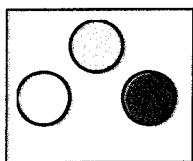
Neutralising solution - 3% Tween 80, 3% Saponin,
0.1% Histidine, 0.1% Cysteine

Temperature of incubation - 30°C ± 1°C

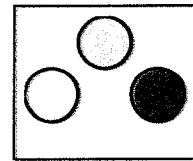
Identification of bacterial strains used - *Escherichia coli* NCTC 10418
Salmonella typhimurium ATCC 14028
Listeria monocytogenes NCTC 11994
Methycillin Resistant *Staphylococcus Aureus*
ATCC 33591



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Test Results

Validation test	Escherichia coli	Salmonella typhimurium	Listeria monocytogenes	MRSA
Bacterial suspension	Vc 178, 240 Nv 2.09×10^3	Vc 544, 551 Nv 5.47×10^3	Vc 217, 255 Nv 2.36×10^3	Vc 312, 354 Nv 3.33×10^3
Neutraliser control	Vc 220, 163 B 1.91×10^2	Vc 522, 546 A 5.34×10^2	Vc 245, 217 A 2.31×10^2	Vc 287, 315 A 3.01×10^2
Dilution-neutralisation control	Vc 208, 174 C 1.91×10^2	Vc 504, 552 B 5.28×10^2	Vc 222, 256 B 2.39×10^2	Vc 296, 322 C 3.09×10^2
Surface innoculum	10^{-6} 116 224 10^{-7} 21 26 N 2.02×10^8	10^{-6} 524 466 10^{-7} 45 50 N 4.85×10^8	10^{-6} 256 222 10^{-7} 24 27 N 2.40×10^8	10^{-6} 252 206 10^{-7} 22 23 N 2.27×10^8
Test results				
2 min	Vc 18 Na 1800 R 1.12×10^5	34 3400 1.43×10^5	19 1900 1.26×10^5	136 13600 1.67×10^4
5 mins	Vc 0 Na <100 R $>2.02 \times 10^6$	0 <100 $>4.85 \times 10^6$	0 <100 $>2.40 \times 10^6$	0 <100 $>2.27 \times 10^6$

Vc = Viable Count.

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

Nv = Number of cfu in bacterial suspension.

R = Reduction in viability.

Na = Number of cfu/ml in the test mixture

Conclusion: According to EN13697 this sample of RBT5020E when diluted 1:250 in sterile hard water possesses satisfactory bactericidal activity in 2 minutes at 20°C under dirty conditions (3.0g/l bovine albumin) for the reference organisms indicated.



D C Watson