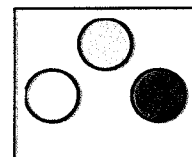


# Abbott Analytical



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.035.SEN

**Page:** 1 of 2

**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 - 2.0% v/v

Product diluent used during test - Sterile hard water 300mg/kg CaCO<sub>3</sub>

Contact time - 30 sec & 3 min

Test Temperature - 20°C ± 0.5°C

Interfering substance - 3.0g/l Bovine albumin

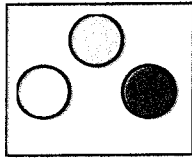
Neutralising solution - 3% Tween 80, 3% Saponin,  
0.1% Histidine, 0.1% Cysteine

Temperature of incubation - 30°C ± 1°C

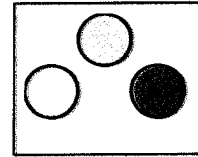
Identification of bacterial strains used - *Escherichia coli* NCTC 10418  
*Salmonella typhimurium* ATCC 14028  
*Listeria monocytogenes* NCTC 11994  
Methicillin Resistant *Staphylococcus Aureus*  
ATCC 33591



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Page 2 of 2

## Test Results

Validation test	Escherichia coli	Salmonella typhimurium	Listeria monocytogenes	MRSA
Bacterial suspension	Vc 178, 240 Nv $2.09 \times 10^3$	Vc 544, 551 Nv $5.47 \times 10^3$	Vc 217, 255 Nv $2.36 \times 10^3$	Vc 312, 354 Nv $3.33 \times 10^3$
Neutraliser control	Vc 220, 163 B $1.91 \times 10^2$	Vc 522, 546 A $5.34 \times 10^2$	Vc 245, 217 A $2.31 \times 10^2$	Vc 287, 315 A $3.01 \times 10^2$
Dilution-neutralisation control	Vc 208, 174 C $1.91 \times 10^2$	Vc 504, 552 B $5.28 \times 10^2$	Vc 222, 256 B $2.39 \times 10^2$	Vc 296, 322 C $3.09 \times 10^2$
Surface innoculum	$10^{-6}$ 116 224 $10^{-7}$ 21 26 N $2.02 \times 10^6$	$10^{-6}$ 524 466 $10^{-7}$ 45 50 N $4.85 \times 10^6$	$10^{-6}$ 256 222 $10^{-7}$ 24 27 N $2.40 \times 10^6$	$10^{-6}$ 252 206 $10^{-7}$ 22 23 N $2.27 \times 10^6$
Test results				
30 sec	Vc 8 Na 800 R $2.52 \times 10^5$	12 1200 $4.04 \times 10^5$	14 1400 $1.71 \times 10^5$	42 4200 $5.40 \times 10^4$
3 mins	Vc 0 Na <100 R $>2.02 \times 10^6$	0 <100 $>4.85 \times 10^6$	0 <100 $>2.40 \times 10^6$	3 300 $7.57 \times 10^5$

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 1:50 in sterile hard water possesses satisfactory bactericidal activity in 30 seconds at 20°C under dirty conditions (3.0g/l bovine albumin) for the reference organisms indicated.

D C Watson