

## Test Report EN 13704. Chemical disinfectants — Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas — (phase 2, step 1)

### Test Laboratory

### BluScientific Test Data

School of Life Sciences  
Glasgow Caledonian University  
GLASGOW  
G4 0BA

### Identification of sample

Name of the product  
Manufacturer

### ANTI-BAK POWDER BIOTECHNICS

Upper Mill, Inverbervie, Aberdeenshire  
UK - DD10 0SP.

Date of Delivery  
Storage conditions  
Product diluent  
Active substances

8<sup>TH</sup>.AUGUST.07  
Room temperature and darkness  
Hard Water  
Not known.

### Test Method and its validation

Method

Filtration-neutralization  
Neutralizer: Lecithin 3g/l, Polysorbate 80 30g/l, sodium  
thiosulphate 5g/l, L-histidine 1g/l, phosphate buffer  
0.0025mol/l, sterilized by autoclave.

### Experimental Conditions

Period of analysis  
Product diluent used  
Product test concentrations  
Appearance product dilutions  
Contact time  
Test temperature  
Interfering substance  
Stability of mixture  
Temperature of incubation  
Identification of strains

9<sup>TH</sup> - 12<sup>TH</sup> AUGUST 2007  
Sterile synthetic hard water  
0.5% WV; 1.0% WV; 1.5% WV  
Clear.  
t = 60 min + 10 s  
20 °C ± 1 °C  
0.3 g/l bovine albumin  
No precipitation  
37 °C ± 1 °C  
*Bacillus subtilis* ATCC 6633

### Conclusion.

According to EN 13704, the ANTI-BAK POWDER possesses sporicidal activity for the referenced strain  
*Bacillus subtilis* ATCC 6633 at the concentration 1.5% WV as tested.

Signed



Dr Chris Woodall, Director, BluScientific Test Data, 20<sup>TH</sup> AUGUST 2007.

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GLASGOW



# BluScientific Test Data<sup>-2-</sup>

EN13704: ANTI-BAK POWDER, BIOTECHNICS LTD.

Test organisms	Validation test				Spore test Suspension (5.4.1.4)	Test procedure at concentration % (W/W) (see 5.5.2)		
	Spore Suspension (see A.2)	Experimental conditions (see A.4.1a and A.4.2a))	Neutralizer toxicity control (see A.4.1b) or filtration control (see A.4.2b))	Dilution-neutralization control (see A.4.1c) or filtration test control (see A.4.2c))		0.5	1.0	1.5
Bacillus subtilis	Vc:125; 189	Vc:174; 100	Vc:175; 211	Vc:178; 149	10 <sup>4</sup> ; 165; 148	>300; >300	10; 48	0; 0
ATCC 6633	Nv:1.6 x 10 <sup>3</sup>	A: 1.4 x 10 <sup>2</sup>	B: 1.9 x 10 <sup>2</sup>	C: 1.6 x 10 <sup>2</sup>	10 <sup>6</sup> ; 19; 12 N:1.6 x 10 <sup>6</sup>	>3.0 x 10 <sup>3</sup> <10 <sup>3</sup>	2.9 x 10 <sup>2</sup> <10 <sup>3</sup>	<1.5 x 10 <sup>2</sup> >10 <sup>3</sup>

Vc = viable count

N = number of cfu/ml of the spore test suspension (5.4.1.4)

Nv = number of cfu/ml in the spore suspension (A.2)

R = reduction in viability

Na = number of cfu/ml in the test mixture (see 5.5.2.2.3 or 5.5.2.3.3)

A = number of cfu/ml of the experimental conditions validation [A.4.1.a) or A.4.2a)]

B = number of cfu/ml of the neutralizer toxicity validation [A.4.1.b)] or of the filtration validation [A.4.2.b)]

C = the number of cfu/ml of the dilution-neutralization validation [A.4.1.c)] or the membrane filtration test validation [a.4.2.c)]