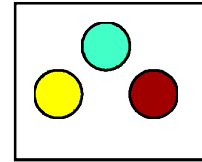


# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

18th January 2008

## Certificate of Analysis

**Samples:** One sample of Teknon Biocleanse Concentrate TK200 received from Quadralene Ltd. Bateman Street, Derby. DE23 8JL 9th January 2008

**Certificate No:** 08A.054.QAD

**Page:** 1 of 2

**Sample Ref:** 8a / 054

**Analysis Required:** Activity against *Clostridium difficile* using EN 13704.

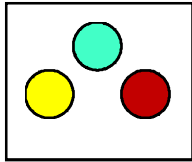
**Samples Tested:** 15th January 2008

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

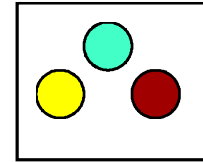
Experimental conditions:

Product test concentrations	- 5% v/v
Product diluent used during test	- Sterile hard water 300mg/kg CaCO <sub>3</sub>
Contact time	- 1, 5 10 and 15 min
Test Temperature	- 20°C ± 0.5°C
Interfering substance	- 3.0g/litre bovine serum
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	- <i>Clostridium difficile</i> NCTC 11209

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## Test Results

Validation test	Clostridium difficile
Bacterial suspension	Vc 360, 326 Nv $3.43 \times 10^3$
Experimental conditions	Vc 344, 370 A $3.57 \times 10^2$
Neutraliser control	Vc 394, 364 B $3.79 \times 10^2$
Dilution-neutralisation control	Vc 308, 332 C $3.20 \times 10^2$
Bacterial Test Suspension	$10^{-6}$ 248, 256 $10^{-7}$ 13 36 N $2.48 \times 10^8$
Test results	
1min	Vc 1088 Na 108800 R $2.28 \times 10^3$
5min	Vc 77 Na 7700 R $3.22 \times 10^4$
10min	Vc 69 Na 6900 R $3.59 \times 10^4$
15min	Vc 60 Na 6000 R $4.13 \times 10^4$

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 EN13704 this batch of TK 200 when diluted 1:20 in sterile hard water possesses satisfactory sporicidal activity in 1 minutes at 20°C for the reference organism detailed.

D C Watson