



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s) : One sample of Remuvit

Received from: Klenitise Ltd. Unit 59, Vale Business Park, Llandow,
Cowbridge, CF71 7PF

Date received: 23 November 2009 **Date tested:** 17 December 2009

Certificate no: 09L.148Cd-KR.ENZ **Certificate date:** 22 December 2009

Sample ref: 9L/148 **Page:** 1 of 2

Analysis required: BS/EN 13704 quantitative suspension test for the evaluation
of sporicidal activity of chemical disinfectants

Product stored at: Room temperature

Active substance: Not declared

Test conditions: 'Clean'

Interfering substance: 0.3g/l bovine albumin

Product test concentration: 10.0% v/v

Product diluent used during test: Sterile hard water 300mg/l CaCO₃

Contact time: 60 minutes

Test temperature: 20°C ± 0.5°C

Neutralising solution: 30g/l polysorbate 80, 3g/l lecithin,
1g/l histidine, 1g/l cysteine

Incubation temperature: 30°C ± 1°C

**Identification of bacterial strain(s)
used:** *Clostridium difficile* NCTC 11209

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Test results:

Test Organism	<i>Clostridium difficile</i>	
Validation Suspension	10 ⁻¹	Vc1 352 Vc2 408
		Nv0 3.80 x10 ³
Experimental Control	10 ⁰	Vc1 316 Vc2 324
		A 3.20 x10 ²
Neutraliser Control	10 ⁰	Vc1 344 Vc2 368
		B 3.56 x10 ²
Method Validation	10 ⁰	Vc1 296 Vc2 338
		C 3.17 x10 ²
Test Suspension	10 ⁻⁶	Vc1 244 Vc2 316
	10 ⁻⁷	Vc1 38 Vc2 44
		N 3.45 x10 ⁸
Results	10 ⁻²	Vc 896
		Na 8.96 x10 ⁴
		R 3.85 x10 ³
Log ₁₀ Reduction	3.59	

Vc = Viable count
 Nv = cfu/ml in the validation suspension
 N = cfu/ml in the test suspension
 Na = cfu/ml in the test mixture
 R = Reduction in viability

Requirements & Conclusion:

To pass EN 13704 a log₁₀ reduction of at least 3 is required.

This batch of Remuvit, when diluted to 10.0% v/v, passes the requirements of EN 13704 for sporicidal activity in 60 minutes at 20°C under 'clean' conditions against the reference organism detailed.

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