



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: 11 November 2009 **Date tested:** 16 November 2009

Certificate no: 09L.063Mr-KR.ENZ **Certificate date:** 18 November 2009

Sample ref: 9L/063 **Page:** 1 of 2

Analysis required: EN 1276, Chemical disinfectants and antiseptics -
Quantitative suspension test for the evaluation of
bactericidal activity of chemical disinfectants and
antiseptics used in food, industrial, domestic and
institutional areas - Test method and requirements
(phase 2, step 1)

Product stored at: Room temperature

Active substance: Not declared

Test conditions: 'Dirty'

Interfering substance: 3.0g/l bovine albumin

Product test concentration: 10.0% v/v

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

Contact time: 5 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: 37°C ± 1°C

**Identification of bacterial strain(s)
used:** Methicillin-resistant ATCC 33591
Staphylococcus aureus

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Test results:

Test Organism	MRSA		
Validation Suspension	10 ⁻¹	Vc1 366	Vc2 382
		Nv0 3.74	x10 ³
Experimental Control	10 ⁰	Vc1 333	Vc2 370
		A 3.52	x10 ²
Neutraliser Control	10 ⁰	Vc1 380	Vc2 322
		B 3.51	x10 ²
Method Validation	10 ⁰	Vc1 346	Vc2 318
		C 3.32	x10 ²
Test Suspension	10 ⁻⁶	Vc1 480	Vc2 568
	10 ⁻⁷	Vc1 28	Vc2 45
		N 4.45	x10 ⁸
Results	10 ⁻²	Vc 0	
		Na < 1.00	x10 ²
		R > 4.45	x10 ⁶
Log ₁₀ Reduction	> 6.65		

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 1276 a log₁₀ reduction of at least 5 is required.

This batch of Remuvit, when diluted to 10.0% v/v, passes the requirements of EN 1276 for bactericidal activity in 5 minutes at 20°C under 'dirty' conditions against the reference organism detailed.

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