



# 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:** 12 November 2009

**Certificate no:** 09L.063BB-KR.ENZ      **Certificate date:** 16 November 2009

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

**Analysis required:** EN 1040, Chemical disinfectants and antiseptics -  
Quantitative suspension test for the evaluation of basic  
bactericidal activity of chemical disinfectants and  
antiseptics - Test method and requirements (phase 1)

  

**Product stored at:** Room temperature

**Active substance:** Not declared

**Test conditions:** N/A

**Interfering substance:** N/A

**Product test concentration:** 10.0% v/v

**Product diluent used during test:** Sterile hard water 300mg/l CaCO<sub>3</sub>

**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:** *Pseudomonas aeruginosa*      ATCC 15442  
*Staphylococcus aureus*      NCTC 6571

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## Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Staphylococcus aureus</i>	
Validation Suspension	10 <sup>-1</sup>	Vc1 366 Vc2 334	Vc1 636 Vc2 647	
		Nv0 3.50 x10 <sup>3</sup>	Nv0 6.42 x10 <sup>3</sup>	
Experimental Control	10 <sup>0</sup>	Vc1 366 Vc2 342	Vc1 514 Vc2 540	
		A 3.54 x10 <sup>2</sup>	A 5.27 x10 <sup>2</sup>	
Neutraliser Control	10 <sup>0</sup>	Vc1 355 Vc2 338	Vc1 522 Vc2 476	
		B 3.47 x10 <sup>2</sup>	B 4.99 x10 <sup>2</sup>	
Method Validation	10 <sup>0</sup>	Vc1 352 Vc2 310	Vc1 538 Vc2 470	
		C 3.31 x10 <sup>2</sup>	C 5.04 x10 <sup>2</sup>	
Test Suspension	10 <sup>-6</sup>	Vc1 312 Vc2 255	Vc1 480 Vc2 736	
	10 <sup>-7</sup>	Vc1 28 Vc2 23	Vc1 78 Vc2 63	
		N 2.69 x10 <sup>8</sup>	N 6.57 x10 <sup>8</sup>	
Results	10 <sup>-2</sup>	Vc 0	Vc 0	
		Na < 1.00 x10 <sup>2</sup>	Na < 1.00 x10 <sup>2</sup>	
		R > 2.69 x10 <sup>6</sup>	R > 6.57 x10 <sup>6</sup>	
Log <sub>10</sub> Reduction	> 6.43		> 6.82	

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 1040 a log<sub>10</sub> reduction of at least 5 is required.

This batch of Remuvit, when diluted to 10.0% v/v, passes the requirements of EN 1040 for bactericidal activity in 5 minutes at 20°C against the reference organisms detailed.

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