



# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Certificate of Analysis

**Sample(s) :** One sample of Cleanitise

**Received from:** Cleanitise Ltd. Unit 4 Block C, Kingsbridge Industrial Estate, Gorseinon, Swansea, SA4 4HJ

**Date received:** 23 July 2010      **Date tested:** 28 July 2010

**Certificate no:** 10G.130E.CLE      **Certificate date:** 30 July 2010

**Sample ref:** 10G/130      **Page:** 1 of 2

**Analysis required:** BS/EN 1276 quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants against Enterobacteriaceae

  

**Product stored at:** Room temperature

**Active substance:** Not declared

**Test conditions:** 'Dirty'

**Interfering substance:** 3.0g/l bovine albumin

**Product test concentration:** 20% 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:**

<i>Pseudomonas aeruginosa</i>	NCIMB 10421
<i>Escherichia coli</i>	NCTC 10418
<i>Salmonella typhimurium</i>	NCTC 12023
<i>Enterobacter cloacae</i>	NCIMB 8151

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## Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Escherichia coli</i>		<i>Salmonella typhimurium</i>		<i>Enterobacter cloacae</i>		
Validation Suspension	10 <sup>-1</sup>	Vc1 366	Vc2 334	Vc1 304	Vc2 358	Vc1 366	Vc2 382	Vc1 444	Vc2 378
		Nv0 3.50	x10 <sup>3</sup>	Nv0 3.31	x10 <sup>3</sup>	Nv0 3.74	x10 <sup>3</sup>	Nv0 4.11	x10 <sup>3</sup>
Experimental Control	10 <sup>0</sup>	Vc1 322	Vc2 304	Vc1 314	Vc2 356	Vc1 333	Vc2 370	Vc1 296	Vc2 354
		A 3.13	x10 <sup>2</sup>	A 3.35	x10 <sup>2</sup>	A 3.52	x10 <sup>2</sup>	A 3.25	x10 <sup>2</sup>
Neutraliser Control	10 <sup>0</sup>	Vc1 338	Vc2 314	Vc1 328	Vc2 348	Vc1 380	Vc2 322	Vc1 328	Vc2 366
		B 3.26	x10 <sup>2</sup>	B 3.38	x10 <sup>2</sup>	B 3.51	x10 <sup>2</sup>	B 3.47	x10 <sup>2</sup>
Method Validation	10 <sup>0</sup>	Vc1 326	Vc2 350	Vc1 326	Vc2 350	Vc1 346	Vc2 318	Vc1 314	Vc2 302
		C 3.38	x10 <sup>2</sup>	C 3.38	x10 <sup>2</sup>	C 3.32	x10 <sup>2</sup>	C 3.08	x10 <sup>2</sup>
Test Suspension	10 <sup>-6</sup>	Vc1 312	Vc2 255	Vc1 246	Vc2 352	Vc1 292	Vc2 188	Vc1 324	Vc2 288
	10 <sup>-7</sup>	Vc1 28	Vc2 23	Vc1 35	Vc2 42	Vc1 23	Vc2 30	Vc1 33	Vc2 41
		N 2.69	x10 <sup>8</sup>	N 3.42	x10 <sup>8</sup>	N 2.53	x10 <sup>8</sup>	N 3.38	x10 <sup>8</sup>
Results	10 <sup>-2</sup>	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0
		Na <1.00	x10 <sup>2</sup>	Na <1.00	x10 <sup>2</sup>	Na <1.00	x10 <sup>2</sup>	Na <1.00	x10 <sup>2</sup>
	R >2.69	x10 <sup>6</sup>	R >3.42	x10 <sup>6</sup>	R >2.53	x10 <sup>6</sup>	R >3.38	x10 <sup>6</sup>	
Log <sub>10</sub> Reduction		> 6.43		> 6.53		> 6.40		> 6.53	

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

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

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