



# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Certificate of Analysis

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

**Received from:** Cleanitise Ltd. 14 Cherry Grove, Sketty, Swansea, SA2 8AS

**Date received:** 16 May 2011      **Date tested:** 18 May 2011

**Certificate no:** 11E.040Sp.CLE      **Certificate date:** 20 May 2011

**Sample ref:** 11E/040      **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:** 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:** 30°C ± 1°C

**Identification of bacterial strain(s) used:** *Streptococcus pneumoniae* NCTC 12977

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## Test results:

Test Organism	<i>Streptococcus pneumoniae</i>	
Validation Suspension (N <sub>v</sub> )	Vc1 352	Vc2 328
	$\bar{x} = 340$	
Experimental Control (A)	Vc1 298	Vc2 310
	$\bar{x} = 304 \geq 0.5N_{v_0}$	
Neutraliser Control (B)	Vc1 286	Vc2 324
	$\bar{x} = 305 \geq 0.5N_{v_0}$	
Method Validation (C)	Vc1 300	Vc2 282
	$\bar{x} = 291 \geq 0.5N_{v_0}$	
Test Suspension	10 <sup>-6</sup> Vc1 312	Vc2 330
	10 <sup>-7</sup> Vc1 35	Vc2 31
(N)	$\bar{w} = 3.22 \times 10^8$	
	lg N = 8.51	
(N <sub>0</sub> = 0.1N)	lg N <sub>0</sub> = 7.51	
Results 10 <sup>0</sup>	Vc1 <14	Vc2 <14
	10 $\bar{x}$ < 140	
(Na)	lg Na < 2.15	
(R)	lg R > 5.36	
Pass: lg R $\geq$ 5	PASS	

Vc = plate count per ml  
 $\bar{x}$  = average of Vc1 and Vc2  
 $\bar{w}$  = weighted mean of  $\bar{x}$   
R = reduction (lg R = lg N<sub>0</sub> - lg Na)

## Conclusion:

This batch of Cleanitise Concentrate, 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 organism detailed.

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