



# 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:** 8 June 2011

**Certificate no:** 11E.040Eo.CLE      **Certificate date:** 10 June 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:** 37°C ± 1°C

**Identification of bacterial strain(s) used:** *Escherichia coli* O157:H7    NCTC 12900

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## Test results:

<b>Test Organism</b>	<b><i>Escherichia coli O157:H7</i></b>	
<b>Validation Suspension (N<sub>v</sub>)</b>	Vc1 108	Vc2 132
	$\bar{x} = 120$	
<b>Experimental Control (A)</b>	Vc1 96	Vc2 104
	$\bar{x} = 100 \geq 0.5N_{v_0}$	
<b>Neutraliser Control (B)</b>	Vc1 94	Vc2 82
	$\bar{x} = 88 \geq 0.5N_{v_0}$	
<b>Method Validation (C)</b>	Vc1 106	Vc2 86
	$\bar{x} = 96 \geq 0.5N_{v_0}$	
<b>Test Suspension</b>	$10^{-6}$ Vc1 244	Vc2 230
	$10^{-7}$ Vc1 30	Vc2 26
<b>(N)</b>	$\bar{w} = 2.41 \times 10^8$	
	lg N = 8.38	
<b>(N<sub>o</sub> = 0.1N)</b>	lg N <sub>o</sub> = 7.38	
<b>Results</b>	Vc1 0	Vc2 0
	$10\bar{x} < 140$	
<b>(Na)</b>	lg Na < 2.15	
<b>(R)</b>	lg R > 5.24	
<b>Pass: lg R <math>\geq</math> 5</b>	<b>PASS</b>	

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>o</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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