



# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Certificate of Analysis

**Sample(s) :** One sample of Sanisafel Wipes

**Received from:** Allied Paper Products Ltd. 5 Centurion Way, Erith, DA18 4AF

**Date received:** 29 March 2012      **Date tested:** 4 April 2012

**Certificate no:** 12C.106IB.ALH      **Certificate date:** 10 April 2012

**Sample ref:** 12C/106      **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:** Neat liquor squeezed from wipes (80% in test suspension)

**Product diluent used during test:** N/A

**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>Staphylococcus aureus</i>	NCTC 10788
<i>Enterococcus hirae</i>	NCIMB 8192

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## Test results:

Test Organism	<i>Pseudomonas aeruginosa</i>		<i>Escherichia coli</i>		<i>Staphylococcus aureus</i>		<i>Enterococcus hirae</i>	
<b>Validation Suspension (N<sub>v</sub>)</b>	Vc1 176	Vc2 154	Vc1 132	Vc2 108	Vc1 144	Vc2 156	Vc1 128	Vc2 138
	$\bar{x} = 165$		$\bar{x} = 120$		$\bar{x} = 150$		$\bar{x} = 133$	
<b>Experimental Control (A)</b>	Vc1 200	Vc2 166	Vc1 144	Vc2 102	Vc1 138	Vc2 162	Vc1 114	Vc2 102
	$\bar{x} = 183 \geq 0.5N_{v0}$		$\bar{x} = 123 \geq 0.5N_{v0}$		$\bar{x} = 150 \geq 0.5N_{v0}$		$\bar{x} = 108 \geq 0.5N_{v0}$	
<b>Neutraliser Control (B)</b>	Vc1 178	Vc2 134	Vc1 106	Vc2 124	Vc1 150	Vc2 126	Vc1 106	Vc2 120
	$\bar{x} = 156 \geq 0.5N_{v0}$		$\bar{x} = 115 \geq 0.5N_{v0}$		$\bar{x} = 138 \geq 0.5N_{v0}$		$\bar{x} = 113 \geq 0.5N_{v0}$	
<b>Method Validation (C)</b>	Vc1 156	Vc2 168	Vc1 110	Vc2 102	Vc1 142	Vc2 118	Vc1 96	Vc2 118
	$\bar{x} = 162 \geq 0.5N_{v0}$		$\bar{x} = 106 \geq 0.5N_{v0}$		$\bar{x} = 130 \geq 0.5N_{v0}$		$\bar{x} = 107 \geq 0.5N_{v0}$	
<b>Test Suspension</b>	$10^{-6}$ Vc1 308	Vc2 >330	Vc1 222	Vc2 206	Vc1 258	Vc2 284	Vc1 242	Vc2 206
	$10^{-7}$ Vc1 34	Vc2 32	Vc1 26	Vc2 27	Vc1 31	Vc2 26	Vc1 23	Vc2 20
<b>(N)</b>	$\bar{w} = 3.12 \times 10^8$		$\bar{w} = 2.19 \times 10^8$		$\bar{w} = 2.72 \times 10^8$		$\bar{w} = 2.23 \times 10^8$	
<b>(N<sub>0</sub> = 0.1N)</b>	lg N = 8.49		lg N = 8.34		lg N = 8.44		lg N = 8.35	
	lg N <sub>0</sub> = 7.49		lg N <sub>0</sub> = 7.34		lg N <sub>0</sub> = 7.44		lg N <sub>0</sub> = 7.35	
<b>Results</b>	Vc1 15	Vc2 21	Vc1 7	Vc2 11	Vc1 0	Vc2 0	Vc1 0	Vc2 0
<b>(Na)</b>	10 $\bar{x}$ = 180		10 $\bar{x}$ < 140		10 $\bar{x}$ < 140		10 $\bar{x}$ < 140	
<b>(R)</b>	lg Na = 2.26		lg Na < 2.15		lg Na < 2.15		lg Na < 2.15	
	lg R = 5.24		lg R > 5.19		lg R > 5.29		lg R > 5.20	
<b>Pass: lg R ≥ 5</b>	PASS		PASS		PASS		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)

## Requirements & Conclusion:

The liquor squeezed from this batch of Sanisafel Wipes, when used neat, **passes the requirements of EN 1276 for bactericidal activity** in 5 minutes at 20°C under dirty conditions against all of the reference organisms detailed.

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