



Abbott Analytical



Consulting Scientists to the Disinfectant Industry

Certificate of Analysis

Sample(s): One sample of Sanisafe 3 Wipes

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

Date received: 7 May 2013 **Date tested:** 10 May 2013

Certificate no: 13E.039IB.ALH **Certificate date:** 13 May 2013

Sample ref: 13E/039 **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

Appearance of product (dilution): Clear, colourless solution

Contact time: 5 minutes

Test temperature: 20°C ± 0.5°C

Neutralising solution: 3% Polysorbate 80, 3g/l Lecithin, 1g/l L-cysteine, 1g/l L-histidine

Incubation temperature: 37°C ± 1°C

Identification of bacterial strain(s) used:

<i>Pseudomonas aeruginosa</i>	ATCC	15442
<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>	
Validation Suspension (N_v)	Vc1 156	Vc2 138	Vc1 138	Vc2 105	Vc1 124	Vc2 134	Vc1 161	Vc2 147
	$\bar{x} = 147$		$\bar{x} = 122$		$\bar{x} = 129$		$\bar{x} = 154$	
Experimental Control (A)	Vc1 127	Vc2 141	Vc1 122	Vc2 118	Vc1 118	Vc2 126	Vc1 156	Vc2 144
	$\bar{x} = 134 \geq 0.5N_{v_0}$		$\bar{x} = 120 \geq 0.5N_{v_0}$		$\bar{x} = 122 \geq 0.5N_{v_0}$		$\bar{x} = 150 \geq 0.5N_{v_0}$	
Neutraliser Control (B)	Vc1 120	Vc2 104	Vc1 104	Vc2 110	Vc1 131	Vc2 105	Vc1 116	Vc2 153
	$\bar{x} = 112 \geq 0.5N_{v_0}$		$\bar{x} = 107 \geq 0.5N_{v_0}$		$\bar{x} = 118 \geq 0.5N_{v_0}$		$\bar{x} = 135 \geq 0.5N_{v_0}$	
Method Validation (C)	Vc1 116	Vc2 135	Vc1 127	Vc2 105	Vc1 125	Vc2 129	Vc1 128	Vc2 154
	$\bar{x} = 126 \geq 0.5N_{v_0}$		$\bar{x} = 116 \geq 0.5N_{v_0}$		$\bar{x} = 127 \geq 0.5N_{v_0}$		$\bar{x} = 141 \geq 0.5N_{v_0}$	
Test Suspension	10^{-6} Vc1 304	Vc2 251	Vc1 259	Vc2 210	Vc1 243	Vc2 236	Vc1 296	Vc2 312
	10^{-7} Vc1 27	Vc2 23	Vc1 23	Vc2 27	Vc1 26	Vc2 28	Vc1 33	Vc2 36
(N = \bar{w})	lg N = 8.44		lg N = 8.37		lg N = 8.38		lg N = 8.49	
(N₀ = 0.1N)	lg N ₀ = 7.44		lg N ₀ = 7.37		lg N ₀ = 7.38		lg N ₀ = 7.49	
Results	Vc1 5	Vc2 8	Vc1 0	Vc2 0	Vc1 4	Vc2 7	Vc1 0	Vc2 9
(Na = 10\bar{x})	lg Na < 2.15		lg Na < 2.15		lg Na < 2.15		lg Na < 2.15	
(R)	lg R > 5.29		lg R > 5.22		lg R > 5.23		lg R > 5.34	
Pass: lg R \geq 5	PASS		PASS		PASS		PASS	

Vc = plate count per ml

\bar{w} = weighted mean of \bar{x}

\bar{x} = average of Vc1 and Vc2

R = reduction (lg R = lg N₀ - lg Na)

Requirements & Conclusion:

The liquor squeezed from this sample of Sanisafe 3 Wipes, when tested 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.

D C Watson