

# Test Data





# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Certificate of Analysis

**Sample(s) :** Sample Magic Quickclean

**Received from:** RP Adam Ltd. Riverside Road, Selkirk, TD7 5DU

**Date received:** 11 November 2013      **Date tested:** 15 November 2013

**Certificate no:** 13L.052IB.RPA      **Certificate date:** 18 November 2013

**Sample ref:** 13L/052      **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:** Clean

**Interfering substance:** 0.3g/l bovine albumin

**Product test concentration:** Neat as received  
(80% in test suspension)

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

**Appearance of product (dilution):** Clear, mauve liquid

**Contact time:** 1 minute

**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>	
<b>Validation Suspension (N<sub>v</sub>)</b>	Vc1 95	Vc2 130	Vc1 104	Vc2 82	Vc1 155	Vc2 120	Vc1 100	Vc2 93
	$\bar{x} = 113$		$\bar{x} = 93$		$\bar{x} = 138$		$\bar{x} = 97$	
<b>Experimental Control (A)</b>	Vc1 110	Vc2 97	Vc1 94	Vc2 95	Vc1 141	Vc2 125	Vc1 83	Vc2 97
	$\bar{x} = 104 \geq 0.5N_{v_0}$		$\bar{x} = 95 \geq 0.5N_{v_0}$		$\bar{x} = 133 \geq 0.5N_{v_0}$		$\bar{x} = 90 \geq 0.5N_{v_0}$	
<b>Neutraliser Control (B)</b>	Vc1 103	Vc2 85	Vc1 73	Vc2 94	Vc1 127	Vc2 138	Vc1 99	Vc2 81
	$\bar{x} = 94 \geq 0.5N_{v_0}$		$\bar{x} = 84 \geq 0.5N_{v_0}$		$\bar{x} = 133 \geq 0.5N_{v_0}$		$\bar{x} = 90 \geq 0.5N_{v_0}$	
<b>Method Validation (C)</b>	Vc1 100	Vc2 126	Vc1 81	Vc2 98	Vc1 118	Vc2 153	Vc1 88	Vc2 94
	$\bar{x} = 113 \geq 0.5N_{v_0}$		$\bar{x} = 90 \geq 0.5N_{v_0}$		$\bar{x} = 136 \geq 0.5N_{v_0}$		$\bar{x} = 91 \geq 0.5N_{v_0}$	
<b>Test Suspension</b>	$10^{-6}$ Vc1 182	$10^{-6}$ Vc2 244	$10^{-6}$ Vc1 216	$10^{-6}$ Vc2 176	$10^{-6}$ Vc1 292	$10^{-6}$ Vc2 252	$10^{-6}$ Vc1 204	$10^{-6}$ Vc2 238
	$10^{-7}$ Vc1 25	$10^{-7}$ Vc2 28	$10^{-7}$ Vc1 20	$10^{-7}$ Vc2 23	$10^{-7}$ Vc1 31	$10^{-7}$ Vc2 36	$10^{-7}$ Vc1 21	$10^{-7}$ Vc2 28
<b>(N = <math>\bar{w}</math>)</b>	lg N = 8.34		lg N = 8.30		lg N = 8.44		lg N = 8.35	
<b>(N<sub>0</sub> = 0.1N)</b>	lg N <sub>0</sub> = 7.34		lg N <sub>0</sub> = 7.30		lg N <sub>0</sub> = 7.44		lg N <sub>0</sub> = 7.35	
<b>Results</b>	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0	Vc1 0	Vc2 0
<b>(Na = 10<math>\bar{x}</math>)</b>	lg Na < 2.15		lg Na < 2.15		lg Na < 2.15		lg Na < 2.15	
<b>(R)</b>	lg R > 5.19		lg R > 5.15		lg R > 5.29		lg R > 5.20	
<b>Pass: lg R <math>\geq</math> 5</b>	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 N<sub>0</sub> - lg Na)

## Requirements & Conclusion:

This sample of Magic Quickclean, when tested neat, **passes the requirements of EN 1276 for bactericidal activity** in 1 minute at 20°C under clean conditions against all of the reference organisms detailed.

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