



# Abbott Analytical



Consulting Scientists to the Disinfectant Industry

## Test Report

**Product name:** DermaGard

**Batch or ref no:**

**Manufacturer or supplier:** Eco-Mist Biotechnics International Ltd  
Unit A2, Mainline Industrial Estate, Milnthorpe, LA7 7LR

**Sample ref:** 18G/010                      **Date received:** 5 July 2018

**Date tested:** 6 July 2018                      **Report date:** 9 July 2018

**Report no:** 18G.010BB3.EMB<sup>1</sup>                      **Page:** 1 of 4

**Analysis required:** EN 1040:2005, Chemical disinfectants and antiseptics -  
Quantitative suspension test for the evaluation of basic  
bactericidal activity of chemical disinfectants and  
antiseptics - Test method and requirements (phase 1)

**Storage conditions:** Room temperature in darkness

**Appearance of product (solution):** Clear colourless liquid

**Active substance(s) and their concentration(s):** Not disclosed

### Notes

The test results in this report relate only to the sample(s) tested.  
This test report may not be reproduced except in full, adapted, altered or used  
to create a derivative work, without written approval from Abbott Analytical.

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## Experimental conditions

**Concentration(s) of product tested:** Neat<sup>2</sup>

**Product diluent:** N/A

**Test organism(s):** *Pseudomonas aeruginosa* (DSM 939)  
*Staphylococcus aureus* (DSM 799)

**Contact time(s):** 5 min ± 10 s

**Test temperature:** 20 °C ± 1 °C

**Test conditions:** N/A

**Interfering substance:** None

**Method:** Dilution-neutralisation

**Neutralising solution:** 30 g/l Polysorbate 80 + 3 g/l Lecithin +  
1 g/l L-histidine + 1 g/l L-cysteine

**Incubation temperature:** 36 °C ± 1 °C

## Remarks

- 1) Re-issued with amended product name.  
Original report 18G.010BB.EMB dated 9 July 2018.
- 2) Products can only be tested at a concentration of 80 % or less as some dilution is always produced by adding the test organisms and interfering substance.

## Conclusion

When tested neat this sample of DermaGard meets the requirements of EN 1040:2005 for bactericidal activity in 5 minutes at 20 °C, against both of the referenced strains of *Pseudomonas aeruginosa* and *Staphylococcus aureus*.

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## Results: *Pseudomonas aeruginosa* (DSM 939)

### Validation and controls:

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: Neat		
Vc1	74	$\bar{x} =$	Vc1	69	$\bar{x} =$	Vc1	72	$\bar{x} =$	Vc1	69	$\bar{x} =$
Vc2	71	72.5	Vc2	73	71	Vc2	70	71	Vc2	69	69
30 ≤ $\bar{x}$ ( $N_{v_o}$ ) ≤ 160 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (A) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (B) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x}$ (C) ≥ 0.5 × $\bar{x}$ ( $N_{v_o}$ ) ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

### Test suspension: ( $N$ and $N_o$ )

$N$	Vc1	Vc2	$\bar{x}$ (wm) = 3.55 × 10 <sup>8</sup> ; lg $N$ = 8.55
10 <sup>-6</sup>	>330	>330	$N_o = N/10$ ; lg $N_o$ = 7.55
10 <sup>-7</sup>	34	37	7.17 ≤ lg $N_o$ ≤ 7.70 ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts ( $N$ )			Quotient = N/A Between 5 and 15 ? <input type="checkbox"/> yes <input type="checkbox"/> no

### Test:

Product test conc.	Contact time	Vc1	Vc2	$N_a =$ ( $\bar{x}$ × 10)	lg $N_a =$	lg $R =$ (lg $N_o$ - lg $N_a$ )	Status
Neat	5 min	0	0	< 140	< 2.15	> 5.40	PASS

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**Results: *Staphylococcus aureus* (DSM 799)**

**Validation and controls:**

Validation suspension ( $N_{v_o}$ )			Experimental conditions control (A)			Neutralizer or filtration control (B)			Method validation (C) Product conc.: Neat		
Vc1	87	$\bar{x} =$	Vc1	91	$\bar{x} =$	Vc1	90	$\bar{x} =$	Vc1	84	$\bar{x} =$
Vc2	92	89.5	Vc2	83	87	Vc2	90	90	Vc2	90	87
$30 \leq \bar{x} (N_{v_o}) \leq 160$ ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (A) \geq 0.5 \times \bar{x} (N_{v_o})$ ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (B) \geq 0.5 \times \bar{x} (N_{v_o})$ ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no			$\bar{x} (C) \geq 0.5 \times \bar{x} (N_{v_o})$ ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		

**Test suspension:  
(N and  $N_o$ )**

N	Vc1	Vc2	$\bar{x} (wm) = 3.65 \times 10^8$ ; $\lg N = 8.56$
$10^{-6}$	>330	>330	$N_o = N/10$ ; $\lg N_o = 7.56$
$10^{-7}$	39	34	$7.17 \leq \lg N_o \leq 7.70$ ? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Control of weighted mean counts (N)			Quotient = N/A Between 5 and 15 ? <input type="checkbox"/> yes <input type="checkbox"/> no

**Test:**

Product test conc.	Contact time	Vc1	Vc2	$N_a =$ ( $\bar{x} \times 10$ )	$\lg N_a =$	$\lg R =$ ( $\lg N_o - \lg N_a$ )	Status
Neat	5 min	0	0	< 140	< 2.15	> 5.41	PASS

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