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## Microbiological Technical Services Laboratory Report

Genesis Biosciences

Report No 17014 FINAL

Issue Date:- 8 August 2017

*Approved By:*



C A Seldon

Laboratory Manager

### <sup>1</sup>Disclaimer

*The information and recommendations in this report are, to the best of our knowledge, true and accurate. Suggestions made concerning the uses or applications of preservative products are the opinion of Chris Seldon Labs Ltd. customers are advised to make their own tests to ensure performance and safety according to their own or customers' particular requirements and conditions of use. Statements herein, therefore, should not be construed as representations or warranties. Nothing contained herein is intended as a recommendation to infringe any patent whether owned by Chris Seldon Laboratories or not.*

# Chris Seldon Laboratories Ltd

## Microbiological Technical Services Laboratory Report

**REPORT NO:** 17014      **Date:** 8 August 2017      **FINAL**

**SAMPLE FROM:**      Genesis Biosciences

**DATE OF RECEIPT:**      14 June 2017

**ACTION:**      Sample for evaluation of relative effectiveness of antimicrobial product in the vapour phase within the water tank of a floor cleaning machine

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One sachet of Biosan Rapide WT was received.

### **EFFICACY OF ANTIMICROBIAL EFFECTIVENESS IN VAPOUR PHASE WITHIN THE WATER TANK OF FLOOR CLEANING MACHINE**

Six sterile antibiotic discs were placed in two replidishes and inoculated, in triplicate, with 20µl of the test species, as detailed below. The lids were rotated through 90° and placed on the replidishes which were then placed on moist non-woven fabric, one on the upper level of the water tank and the other in a raised basket in a waste container (control).

The sachet of Biosan was emptied into the bottom of the water tank in a floor cleaning machine.

The water tank and control tank were then stored at room temperature (20°C) for 10 hours and the number of survivors determined by transferring the discs into 2ml of sterile Ringers solution and serial dilution thereafter. The numbers of survivors was determined using the Miles Misra and spread plate method.

<b>TEST SPECIES</b>		<b>INITIAL INOCULUM LEvel</b>
		Colony forming units per ml
<i>Pseudomonas aeruginosa</i>	NCIMB 10421 (ATCC 15442)	6.0 x 10 <sup>9</sup>
<i>Escherichia coli</i>	NCIMB 8879 (ATCC 10536)	8.0 x 10 <sup>8</sup>

### **MILES MISRA CALCULATION**

Colony forming units per ml = mean count of drops x dilution x 100

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## TEST RESULTS

### CALCULATIONS

#### Miles Misra

Total microbial count = mean count of drops x dilution x 100 x 2 (wt of diluent)

#### Spread Plate

Total microbial count = mean of total number of colonies x 10 x 2 (wt of diluent)

Test Species	Treated	Control
<i>P.aeruginosa</i>	20  Log: 1.30	$34/6 \times 10^{-5} \times 100 \times 2$ $5.67 \times 10^{-5} \times 100 \times 2$ $1.13 \times 10^8$ Log: 8.05
<i>E.coli</i>	$29 \times 10 \times 2$ (SP) $5.7 \times 10^2$ Log: 2.76	$94/6 \times 10^{-4} \times 100 \times 2$ $15.67 \times 10^{-4} \times 100 \times 2$ $3.13 \times 10^7$ Log: 7.50

SP = Spread plate

### CALCULATED Log REDUCTIONS

(Log control – log treated)

Test Species	Calculation	Log Reduction
	Log control – log treated	
<i>P.aeruginosa</i>	8.05 – 1.30	6.75
<i>E.coli</i>	7.50 – 2.76	4.74

### CONCLUSIONS AND OBSERVATIONS

Test results indicate:-

- The Biosan Rapide WT demonstrated a microbiocidal effect against *P.aeruginosa* in the order of an 8.05log reduction over a 10 hours period.
- The Biosan Rapide WT demonstrated a microbiocidal effect against *E.coli* in the order of an 4.74log reduction over a 10 hour period.

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