



Micro Quality Labs

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MICROBIOLOGICAL REPORT

Business Name: BGP LLC
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Report Date: 10/19/10
Date Received: 9/30/10
Date Completed: 09/31/10

SAMPLE DESCRIPTION:

ACCESSION #

Project # 2479

SAMPLE:

Multi-Use Hand and Body Lotion

Product Code/ Batch & Date

MN-03-299A-R3

TEST PERFORMED:

**Bacterial Reduction –
Reference AOAC**

The log reduction is used to determine the effectiveness of a product at reducing a specific microorganism population.

Acinetobacter iwoffii – ATTC 15309 was prepared by inoculating the surface of TSA slants. Each microorganism was then incubated at 30 to 35°C for 18 to 24 hours. Following the incubation period the slants were washed with sterile Serological Saline Solution to harvest the microorganisms. Using Culti-Loops microorganisms were grown and adjusted to 10^8 (cfu) colony forming units per mL and used as a stock suspension. An additional 1:10 dilution of the stock suspension was made using Serological Saline Solution to achieve a concentration of approximately 10^7 CFU per mL.

For the microorganism to be tested, 20 mL of test product and 20 mL of Serological Saline Solution was added into separate sterile tubes. Each 20mL sample of test product and Serological Saline Solution was inoculated with 0.2 mL of the 10^7 CFU/mL suspensions. These inoculums resulted in approximately 10^6 CFU/mL into the product and Serological Saline Solution control.

At the time intervals of 30 seconds, 60 seconds, 1.0 mL from the inoculated test product was taken and placed into 9.0 mL of Modified Lethen Broth (1:10 Dilution). Additional 1:10 serial dilutions were prepared using neutralizing broth to achieve 1:100 and 1:1000 dilutions.

1 mL from each dilution was plated in sterile Petri dishes and melted TSA agar was added as the growth medium for bacterial organisms.

The bacterial plates were incubated at 30 to 35°C for 48 hours. The same procedure was repeated for the Serological Saline Solution control. After the incubation period, all plates were counted to determine the number of microorganisms remaining at the various time points.



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RESULTS:

Acinetobacter iwoffii ATCC 15309

EXPOSURE TIME	CONCENTRATION OF ORGANISM (CFU/mL)		% REDUCTION		LOG REDUCTION	
	CONTROL	PRODUCT	CONTROL	PRODUCT	CONTROL	PRODUCT
INITIAL	2.50×10^5					
30 sec.	2.50×10^5	10cfu/gm/ml	N/A	100%	0.00	0.00
60 sec.	2.50×10^5	<10cfu/gm/ml	N/A	100%	0.00	0.00

Data Calculation:

The concentration of each microorganism for the control and product is listed for each interval. These numbers are expressed in terms of scientific notation. The next two headings represent the “% reduction” and “Log Reduction” information for each time point. Both calculations are used to express the change (reduction or increase) of the microorganism population relative to starting inoculums.

$$\% \text{ Reduction} = \frac{\text{Initial Count} - \text{Count at x time interval}}{\text{Initial Count}} \times 100$$

For example: % Reduction for *Control*.

$$\frac{2.50 \times 10^5 - 2.50 \times 10^5}{2.50 \times 10^5}$$

The log reduction is calculated as follows:

$$\text{Log}_{10}(\text{initial count}) - \text{Log}_{10}(\text{x times interval}) = \text{Log reduction}$$

$$\text{For example: } \text{Log}_{10}(2.50 \times 10^5) - \text{Log}_{10}(2.50 \times 10^5) = 5.39 - 5.39 = 0.00 \text{ log reduction}$$

Discussion:


The minimum bactericidal concentration is defined as 99.9% decrease (3 log) in the initial inoculums. The test product had no counts for growth when exposed to *Acinetobacter iwoffii* after 30 seconds.

Conclusion:

The results indicate that Multi-Use Hand and Body Lotion has 99.9% log reduction for *Acinetobacter iwoffii* at 30seconds of contact time.

The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.

Approved:  Date: 10/19/10
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 Date: 10/19/10
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