# Antimicrobial Test Laboratories

## Fast, Reliable Antimicrobial Efficacy Testing

**Minimum Inhibitory Concentration Study Report NG1869**



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**Client Information**

| | | | |
|---|---|---|---|
| Company Name: | Super Body Care | Study Sponsor: | Cheri Heberling |
| Sponsor's Phone: | (800) 439-9830 | Sponsor's E-mail: | cheri@superbodycare.com |

**Study Information**

| | | | |
|---|---|---|---|
| Tests Performed: | Microtiter-Based Minimum Inhibitory Concentration (MIC) Tests, in Duplicate (Study ID NG1869) | | |
| SOP Followed: | ATL SOP 011 | Performed by: | A. Rex, B.S. and B. Tanner, Ph.D. |

**Test Substance Information**

| | | | |
|---|---|---|---|
| Date Received: | 18 January 2010 | Test Substance ID: | Super Body Care Body Wipes |

**Parameters**

| | | | |
|---|---|---|---|
| Microorganisms: | MRSA ATCC 33591 | Culture Age: | 18 ± 1 Hours, Tryptic Soy Broth (MRSA) |
| | *E. coli* ATCC 11229 | | 18 ± 1 Hours, Tryptic Soy Broth (*E. coli*) |
| Subculture Number: | 1 (Both Test Microorganisms) | Dilution Vessel: | Sterile 96-Well Microtiter Plate |
| MIC Dilution Broth: | Mueller-Hinton Broth | Final Well Volume: | 300µL |
| Dilution Range: | 1:2 to 1:1024 | Incubation Temp.: | 36.0 ± 1°C |
| Replicates: | 2 (Duplicate Rows on 96-Well Plate) | Incubation Time: | 18 ± 1 Hours |

**Controls**

| | | | |
|---|---|---|---|
| Growth Control: | Passed, MRSA and *E. coli* Positive | Media Sterility: | Passed, MRSA and *E. coli* Negative |

**Test Results**

| | | | |
|---|---|---|---|
| MIC Values: | See Tables, Page 2 | Tests Valid?: | Yes |

**Notes:** The test substance for this study was harvested from a disposable towelette pouch by serological pipet. The test substance was clear and soluble in the Meuller-Hinton Broth used for the study. The turnaround time for this study was 3 days from the date of test substance receipt. The test substance demonstrated an antimicrobial effect - inhibiting growth of MRSA and E. coli.

**Study Completed:** 20 January 2010 **Report Sent:** 20 January 2010

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**Summary of the Test Procedure:**

- MRSA and *E. coli* test microorganisms were grown overnight in Tryptic Soy Broth culture.
- Test cultures were standardized to concentrations of approximately 1,000,000 cells/ml.
- Test product was diluted in serial 1:1 dilutions through Meuller-Hinton broth, left to right.
- Postitive and negative growth controls were prepared (columns 11 and 12, respectively).
- The serially diluted test product was inoculated with the standardized microbial suspensions.
- A sub-sample of liquid from control wells was enumerated to determine initial concentrations.
- The inoculated 96-well microtiter plate was placed in a 36 degree Celcius incubator.
- The inoculated 96-well microtiter plate was removed after 18 hours of incubation.
- The inoculated, incubated 96-well microtiter plate was observed visually for turbidity in the wells.
- MICs (minimum inhibitory concentrations) were determined and reported to the Study Sponsor.

**Results**

Table 1. Graphical Representation of 96-well Dish

| | | | | | | | | | | | | | | Growth | No Growth |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Microorganism | Rep. | CFU/ml Initial | MIC (%) | Product Concentration (%) in Microtiter Well | | | | | | | | | | Positive Control | Negative Control |
| | | | | 1 (1:2) | 2 (1:4) | 3 (1:8) | 4 (1:16) | 5 (1:32) | 6 (1:64) | 7 (1:128) | 8 (1:256) | 9 (1:512) | 10 (1:1024) | 11 | 12 |
| MRSA ATCC 33591 | 1 | 160,000 | 12.5 | 50 | 25 | 12.5 | 6.25 | 3.13 | 1.56 | 0.78 | 0.391 | 0.195 | 0.098 | + | - |
| | 2 | | 12.5 | 50 | 25 | 12.5 | 6.25 | 3.13 | 1.56 | 0.78 | 0.391 | 0.195 | 0.098 | + | - |
| *E. coli* ATCC 11229 | 1 | 345,000 | 12.5 | 50 | 25 | 12.5 | 6.25 | 3.13 | 1.56 | 0.78 | 0.391 | 0.195 | 0.098 | + | - |
| | 2 | | 12.5 | 50 | 25 | 12.5 | 6.25 | 3.13 | 1.56 | 0.78 | 0.391 | 0.195 | 0.098 | + | - |

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**Photograph of the Study**

**Rows B and C = MRSA**
**Rows E and F = *E. coli***

**Column 11 = Positive Control**
**Column 12 = Negative Control**

Photograph 1. 96-Well Microtiter Plate Post-Incubation

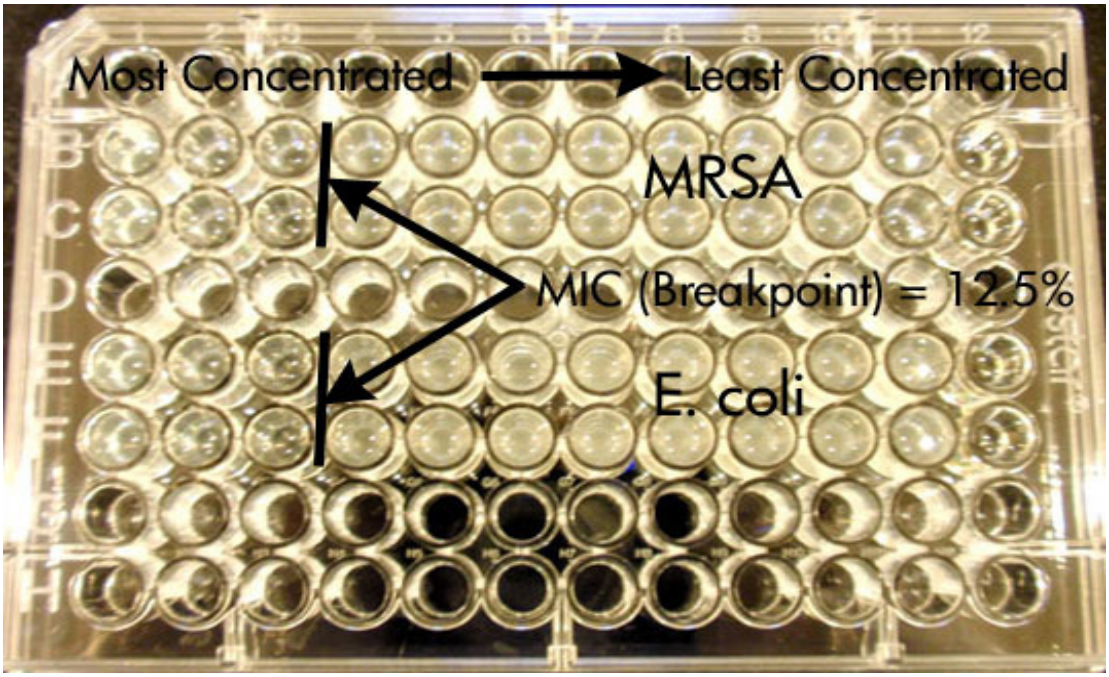


Photo shows the actual microtiter dish used for the study. Note the inhibition of growth in the left-most wells, corresponding to an MIC of 1:8 (12.5%) for both *E. coli* and MRSA.

The individual wells of the dish are represented as cells in the small table appearing on Page 2 of the Report.

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