



## Reslnova LABORATORIES

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Cleanbox Tech  
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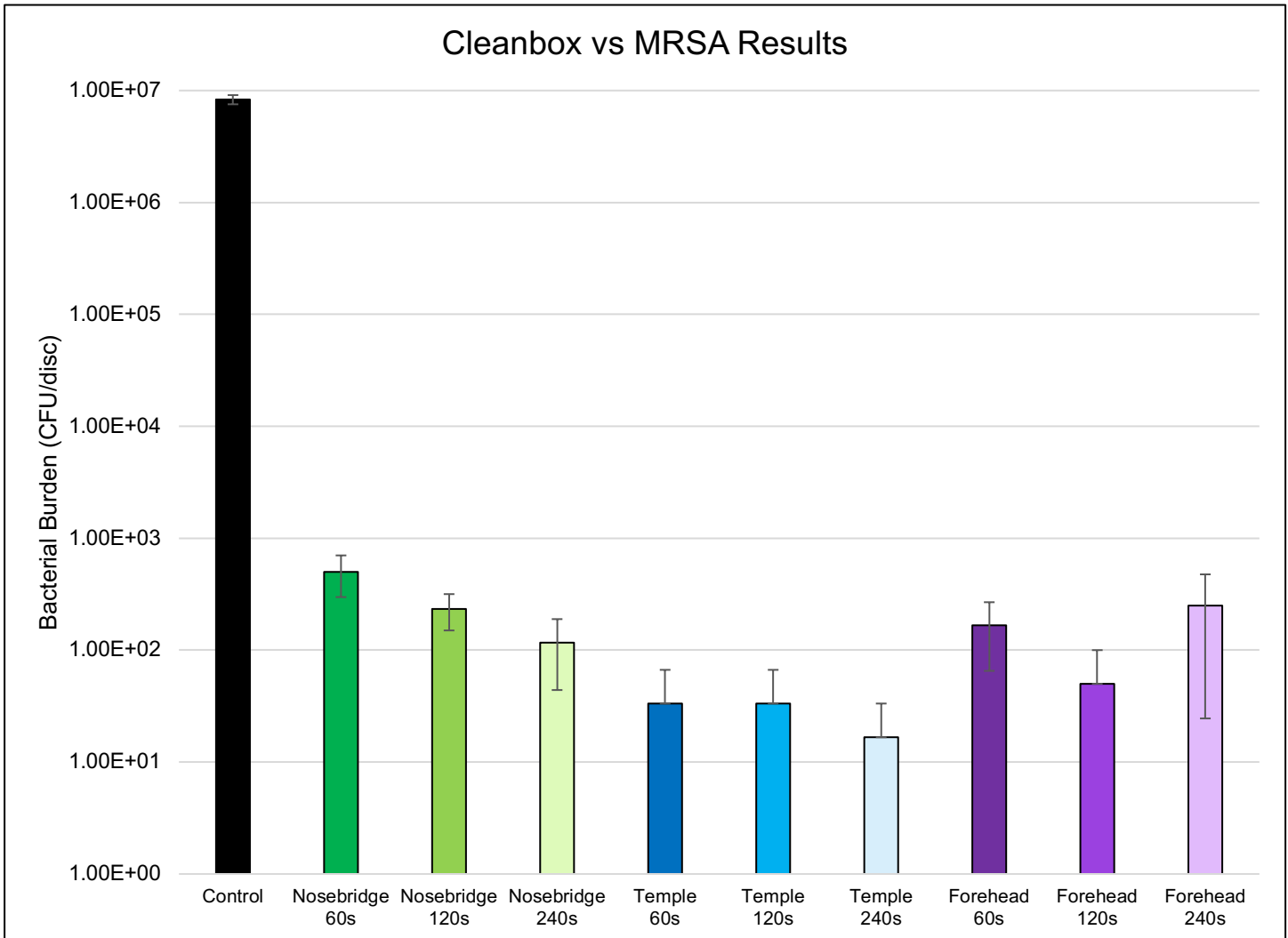
### Antimicrobial Evaluation of Cleanbox Treated Articles

#### Test Method Details

|   |  |
|---|--|
| Test Method                                 | Modified ASTM E2197  |
| Test Organism                               | Methicillin-resistant <i>Staphylococcus aureus</i> (ATCC 33591) (MRSA)       |
| Test Solution                               | Phosphate Buffered Saline (1x) with Serum (5%)                               |
| Test Discs                                  | 20mm diameter magnetic stainless steel discs                                 |
| Test Disc Locations                         | Nosebridge, Temple, and Forehead   |
| Inoculum Applied to Test Disc               | 0.010 mL applied to each disc and spread to within 1 mm of edges, then dried |
| Recovery Solution                           | 5 mL Phosphate Buffered Saline (1x) with Triton X-100 surfactant (0.1%)      |
| Measuring Method of Number of Viable Spores | Dilution Plate Method onto plates of nutritive Tryptic Soy Agar (1x)         |

#### Results

| Modified ASTM E2197: Standard Quantitative Disk Carrier Test Method |               |                                     |   |                            |                                |
|---|---------------|-------------------------------------|---|----------------------------|--------------------------------|
| Number of Replicate Experiments                                     |               | 3                                   |   |                            |                                |
| Number of Replicate Discs per Experiment                            |               | 1                                   |   |                            |                                |
| Control Average Bacterial Burden                                    |               | 8.32E+06 CFU/disc = 6.92 log        |   |                            |                                |
| Test location   | Exposure Time | Average Bacterial Burden (CFU/disc) | Average Log Bacterial Burden (CFU/disc) | Log Reduction (vs Control) | Percent Reduction (vs Control) |
| Nosebridge  | 60            | 5.00E+02                            | 2.70                                    | 4.22                       | >99.99%                        |
| Nosebridge  | 120           | 2.33E+02                            | 2.37                                    | 4.55                       | >99.99%                        |
| Nosebridge  | 240           | 1.17E+02                            | 2.07                                    | 4.85                       | >99.99%                        |
| Temple  | 60            | 3.33E+01                            | 1.52                                    | 5.40                       | >99.99%                        |
| Temple  | 120           | 3.33E+01                            | 1.52                                    | 5.40                       | >99.99%                        |
| Temple  | 240           | 1.67E+01                            | 1.22                                    | 5.70                       | >99.99%                        |
| Forehead  | 60            | 1.67E+02                            | 2.22                                    | 4.70                       | >99.99%                        |
| Forehead  | 120           | 5.00E+01                            | 1.70                                    | 5.22                       | >99.99%                        |
| Forehead  | 240           | 2.50E+02                            | 2.40                                    | 4.52                       | >99.99%                        |



**Conclusions**

At each time-point, the Nosebridge location demonstrated the least reduction of MRSA bacterial burden (at 4.22, 4.55, and 4.85 logs for 60, 120, and 240 seconds, respectively), the Forehead location demonstrated better reduction (at 4.70, 5.22, and 4.52 logs, respectively), and the Temple location demonstrated the best reduction (at 5.40, 5.40, and 5.70 logs, respectively).

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