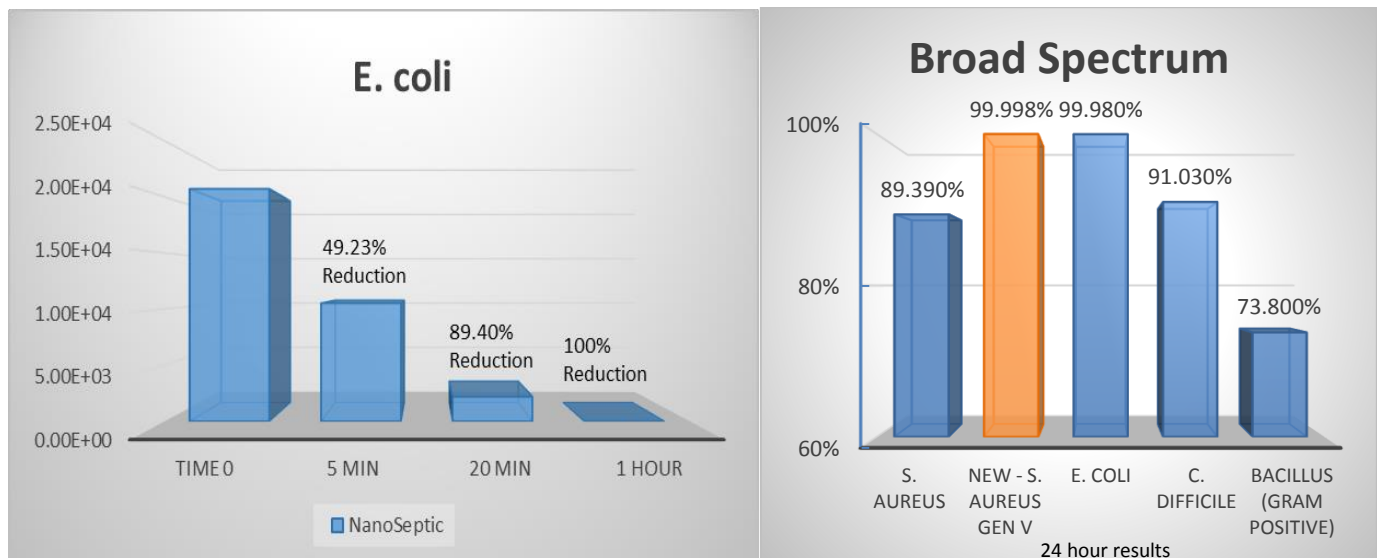


# Self-Cleaning Research and Development

## Lab Test Summary

Independent, 3<sup>rd</sup> party tests based on a modified JIS 2801 test protocol were conducted by our GPL-compliant test lab to assess our NanoSeptic surfaces. First, it is important to establish the effectiveness of the technology against a list of common organic threats. This round of testing was done in a controlled laboratory environment on a hard tile surface to remove any variability related to the surface or environment. The second test methodology has a more “real world” approach, testing the material’s ability to limit transfer of organic material, both through its ability to trap as well as its ability to oxidize. This test is also performed under controlled laboratory conditions. In both cases, the tests were conducted utilizing typical interior light, temperature and humidity. This is important, since some traditional antimicrobial products show results after being exposed to high levels of UV light to accentuate the effects.

### Research Results



When the MERS outbreak started to spread with a 50% mortality rate, distributors in the Middle East wanted to know if our research included specific organic material like the Coronavirus. After only 30 minutes, the target organic material was completely oxidized. The tests showed just how powerful the surface is when compared to real-world touch points made from stainless steel.

