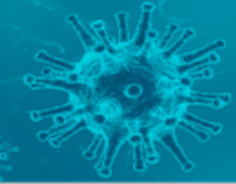


Human Coronavirus control on inoculated surfaces.



Applications

Environmental Biosecurity in Indoor Public areas, Health Facilities, Work/Production Areas, etc.

Objective

Determine efficacy and efficiency of Oxyion Technology® to inactivate human Coronavirus on plastic, stainless steel and floor tile surfaces.

Materials And Methods



1. Human Coronavirus Culture NL63 HCoV (ATCC s VR-3263 SD)



2. Coronavirus inoculation 100 ml with 10^7 UFC on 5x5 cm² plastic- stainless steel- tile surfaces



3. Oxyion exposure Time: 15, 30 min y 1, 2, 4, 8, 12 y 24 h 24 °C y 40 % RH.

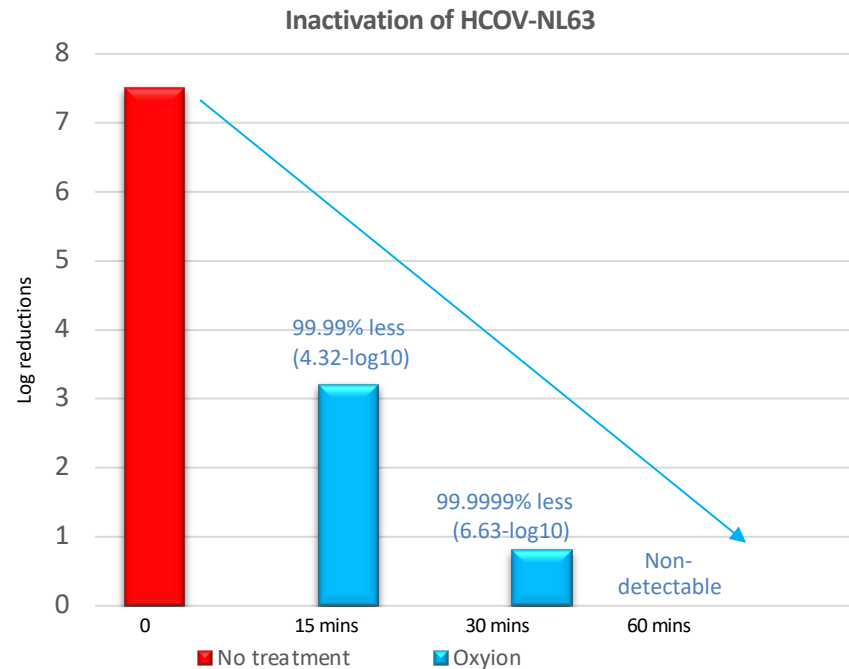


4. Analysis of Coronavirus Counts in plastic- stainless steel- tile



5. Results and Conclusions

Results



▶ Human Coronavirus 99.99% reduction in just 15 minutes. Non-detectable in less than 1 hour

1 Log reduction = Number of germs is 10 times smaller
2 Log reduction = Number of germs is 100 times smaller
3 Log reduction = Number of germs is 1000 times smaller
4 Log reduction = Number of germs is 10000 times smaller

Conclusions

Significant effect from Oxyion technology efficiency in inactivation of Human coronavirus (NL63 HCoV) in a short period of time on the three surfaces tested.

The technology inactivates viruses by breaking down their protein protection and inactivating the RNA

