Applications

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

Objective

Determine efficacy and efficiency of Oxyion Technology® to inactivate viruses, Norovirus (gastroenteritis), Rhinovirus (colds) and others on plastic, stainless steel and floor tile surfaces.

Materials And Methods

2.

Cultivation of and Norovirus (ATCC VR-782) & Rhinovirus (ATCC VR-1121) to approximately 1.10/ UFC/ml concentration

Virus inoculation 100 ml with 10⁷ UFC

- 100 ml with 10⁷ UFC on 5x5 cm² plastic- stainless steel- tile surfaces
- Oxy Ion.

ĥ

- Oxyion exposure Time: 30 min y 1, 2, 4, 8, 12 y 24 h 24 °C y 40 % RH.
- 4. Analysis of Virus Counts in plastic- stainless steel- tile

5. Results and Conclusions

Results



Conclusions

The results showed a clear correlation between the Oxyion treatment on surfaces and effective viral inactivation of viruses like Norovirus and Rhinovirus on plastic, stainless steel and tile surfaces.





just 30 minutes. Non-detectable in less than 4 hours

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