

HYGENIKX PRODUCT EFFICACY SUMMARY

SGS – TOTAL BACTERIA COUNT

TEST REPORT HKIEQ15-00054 R1



SAMPLE LABELLING	TOTAL BACTERIA COUNT cfu/m3	REDUCTION PERCENTAGE %
Initial	>4400	-
4th hour	23	>99.46
12th hour	10	>99.77

UNIVERSITY OF LEEDS - AIR AND SURFACE TESTING AGAINST LISTED PATHOGENS

AIR DISINFECTION
EVALUATION EFFICIENCY

PATHOGEN	1 HOUR
E. Coli	100%
S. aureus	100%
A. fumigatus	100%

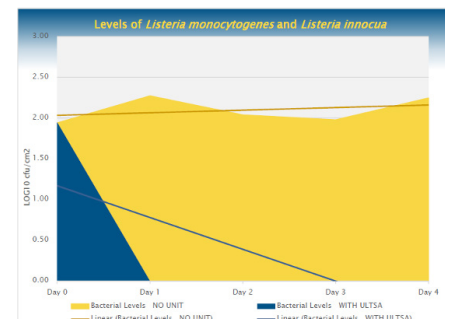
SURFACE DISINFECTION
EVALUATION EFFICIENCY

PATHOGEN	8 HOURS	24 HOURS	48 HOURS
E. Coli	79.6%	97.7%	99.9%
S. aureus	87.4%	91.1%	99.5%
C. difficile	91.4%	98.1%	99.6%



ALS - LISTERIA TESTING

- Testing on two common Listeria species – Listeria monocytogenes and Listeria innocua in a cold room environment
- Without HyGenikx, bacteria levels remained around 2 log cfu/cm2
- With HyGenikx 0 log cfu/cm2 within 24 hours, all samples below detectable levels by day 3



CORONAVIRUS AND HYGENIKX

Exert from article by Dr L Webber

Dr Webber has a background of over 45 years in microbiology



HyGenikx units have been shown to kill a wide range of microbes that are more difficult to eradicate than viruses, including bacterial species that produce endospores (*Clostridium difficile*, *Geobacillus stearothermophilus*), Gram-positive bacteria (*Staphylococcus aureus*, MRSA, *S. epidermidis*, *Listeria monocytogenes* and *L. innocua*), Gram-negative bacteria (*Escherichia coli* and *Pseudomonas aeruginosa*), and moulds (*Aspergillus fumigatus*) in both the air and/or on surfaces.

SARS-CoV-2 belongs to the same group of viruses that cause colds and influenza. The use of similar technology in call centres and offices at an NHS Trust has been shown to reduce the incidence of illness-related absences; particularly reported cases of colds, coughs and influenza, as well as reducing other chest and respiratory problems.

Without testing HyGenikx against SARS-CoV-2 (or a suitable surrogate) we cannot categorically state that we can kill this coronavirus; however there is a great deal of scientific evidence that this technology can kill a wide range of other microbes that are much more difficult to eradicate than SARS-CoV-2.