

Product Efficacy Summary

The HPA (Health Protection Agency) Test Results

Airbourne Test Results - 5 minutes

- **MS2 coliphage**
(enveloped single stranded RNA coliphage)
- **Staphylococcus epidermidis**
(a gram positive cocci)

Micro-organism	Percentage Efficiency
▪ MS-2 coliphage	92.17%
▪ Staph. epidermidis	98.11%

Surface Test Results – 1 hour

- **MS2 coliphage**
(enveloped single stranded RNA coliphage)
- **MRSA**
(a gram positive cocci)

Micro-organism	Percentage Efficiency
▪ MS-2 coliphage	59.47%
▪ MRSA	51.81%



Air and surface testing against listed pathogens

Air disinfection 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%



Total Bacteria count - Reduction Percentage % (Tested products as listed)

Total Bacteria Count cfu/m3	MF20	AS20	WT10
After 4 hours	>99.46%		
After 8 hours		>99.38%	
After 12 hours	>99.77%		>99.69%
After 24 hours		>99.69%	>99.77%



South Central Ambulance Service

NHS Foundation Trust

Report Summary below - (Full report by Phil Convery, Infection control lead)

- 10 units installed in key locations around EOC and 111 call centre
- Absenteeism monitored before and after unit installation
- Clear reduction from 2013 to 2014/15
- Over 42% reduction in absenteeism
- Full sickness breakdown for EOC and 111 combined as below:

	Sickness Reason	S13 Cold, Cough, Flu - Influenza	S14 Asthma	S15 Chest & respiratory problems	S16 Headache / migraine	S21 Ear, nose, throat (ENT)	S23 Eye problems	S25 Gastrointestinal problems	S27 Infectious diseases	S98 Other known causes - not elsewhere classified	S99 Unknown causes / Not specified	Grand Total
111 & EOC NORTH	Sep-13	73	33	12	52	109	0	13/	18	0	238	776
	Sep-14	23	6	99	43	14	7	045	0	58	78	484
	Dec-13	124	123	174	41	57	15	238	0	56	365	1305
	Dec-14	134	0	76	61	46	0	117	0	5	85	635
	Mar-14	92	198	207	259	154	0	148	0	0	262	1431
	Mar-15	46	0	90	108	173	8	113	7	19	205	891

CORONAVIRUS AND AIRSTERIL

Exert from article by Dr D Webber

Dr Webber has a background of over 45 years in microbiology

AIRsteril 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 AIRsteril units 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.