

# 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%



## Airborne germs distributed throughout a large 75m3 test room

- Immediate **99%** (2 log) reduction in viral load
- Greater than **99.99%** (4.9 log) reduction within 10 minutes
- Confirmation AIRsteril kills all enveloped viruses including Coronavirus

Control experiment showed germs present 1 hour later without AIRsteril. Testing performed using recognized viral surrogate, "Coliphage phiX174". Testing by HygCen Germany GmbH, efficacy verified by the Fraunhofer Institute of Toxicology and Experimental Medicine.

## Elimination of Listeria from a cold room environment

Listeria monocytogenes & Listeria innocua

- Levels reduced to 0 log cfu/cm2 within 24 hours
- All samples below detectable levels by day 3



Without AIRsteril, bacteria levels remained around 2 log cfu/cm2  
Tested in an environment where Listeria is a persistent problem



## South Central Ambulance Service **NHS**

NHS Foundation Trust

- **Over 42% reduction in absenteeism**
- Absenteeism monitored before and after installation
- 10 units installed in key locations
- On site swab testing performed

	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