

Product Testing Summary



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 by HygCen Germany GmbH using Coliphage phiX174 viral surrogate, 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



Elimination of Fungi (Pichia anomala yeast) from surfaces

- Levels reduced to 0 log cfu/cm² by day 1
- All samples below detectable levels by day 2

Without AIRsteril, the fungi remained after 3 days

Antimicrobial efficacy of AIRsteril unit in **NHS** public transport ambulances:



- Swab and settle plate samples taken from 19 vehicles (10 control and 9 with AIRsteril units installed)
- ALS laboratories concluded vehicles with AIRsteril units demonstrated:
 - **95.26%** lower surface microorganism levels
 - **81.45%** lower airborne microorganism levels (with 88.51% reduction in mould)

Emergency Operations Call Centre (EOC)

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



NHS
South Central
Ambulance Service
NHS Foundation Trust

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Airport Washroom Study with settle plate testing:

- 79.01% reduction in Mould
- 78.62% reduction in Yeast
- 77.09% reduction in Microorganism Total Viable Count (TVC)



Based 20 sets of settle plates left for an hour before and after installation of AIRsteril units.

The HPA (Health Protection Agency) Test Results

Airbourne Test Results - 5 minutes

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

Surface Test Results – 1 hour

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%