AiroPure®: Proven Innovation

Validated for Industrial and Regulated Environments

AiroPure® Overview: Science and Certification

In every industry, certain innovations set a new standard. **AiroPure®** is one of them - a patented biodegradable and non-toxic odour neutraliser that consistently outperforms alternatives.

Recognised globally, it destroys odours and harmful compounds at the molecular level, delivering proven results in the toughest environments.

This document shares independent test results that demonstrate why AiroPure® is trusted by operators and regulators alike.

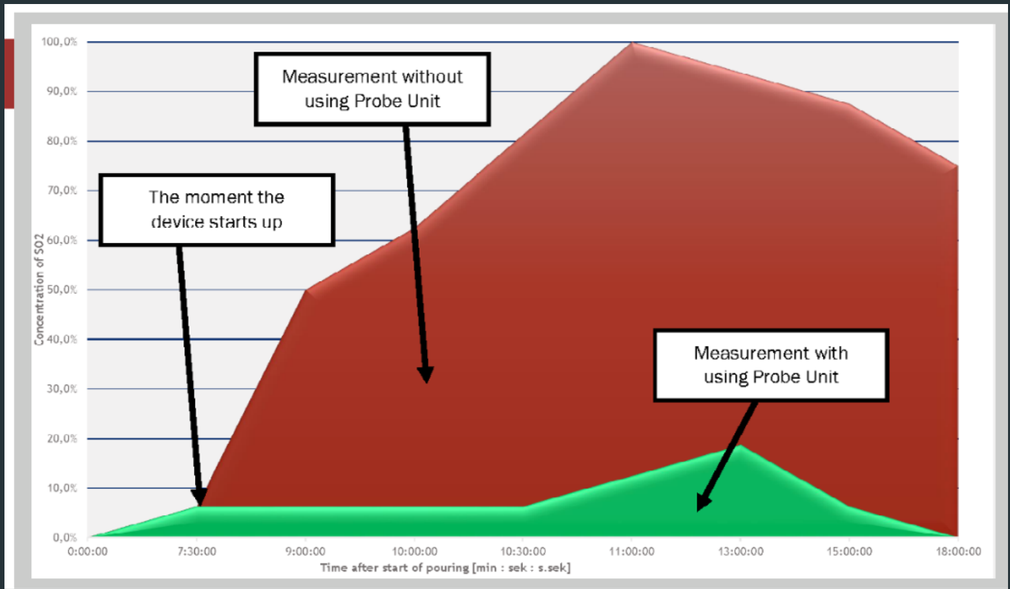
- **Cytotoxicity testing** - proven non-irritating and safe for contact
- **Independent toxicologist review** - confirmed environmental friendliness
- **Eurofins & Intertek lab testing** - proven effective at neutralising harmful substances

Product	Ammonia	Butanoic acid	Methyl mercaptane	Trimethyl amine (TMA)
Airopure	98%	85%	90%	99.4%

These figures show just how much of each odour **AiroPure®** eliminated.

AiroPure® Effectiveness Demonstrated

Trials were conducted at the **PGO Śrem Foundry** to measure the effectiveness of AiroPure® in neutralising harmful fumes released during mould pouring. A second round of testing then **reinforced these results** using the Probe Atomiser together with AiroPure®'s Berry reagent.



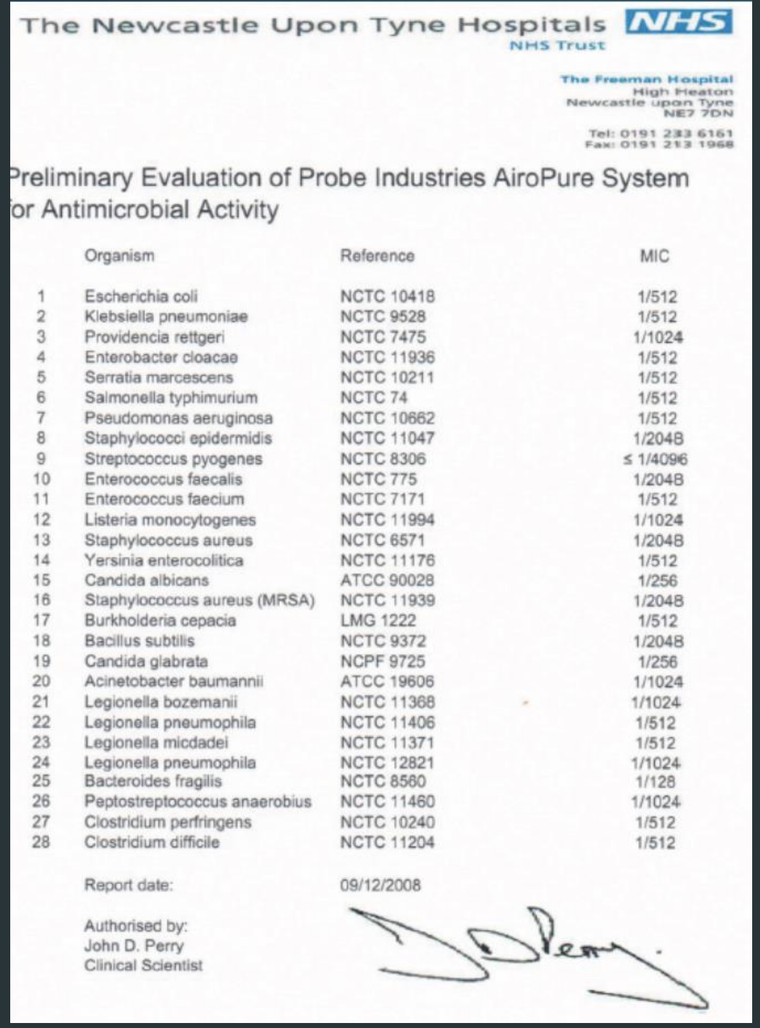
- Achieved **100% reduction** in Sulphur Dioxide and Hydrogen Sulphide
- Achieved **99.4% reduction** in ammonia and amines (TMA, DMEA, DMIPA, DMPA)
- Employees reported a **significant improvement in air quality and working conditions**
- Results confirmed its effectiveness on furan-based binder mould fumes after liquid metal flooding
- AiroPure® showed **advanced odour destruction**, not masking or encapsulating odours but **chemically modifying molecules** so they no longer smell

The AiroPure® Advantage

These excerpts from independent laboratory reports illustrate AiroPure®'s proven effectiveness.

Tested across multiple sites and laboratories, the results consistently demonstrate its superior odour neutralisation and dust control performance.

Click here for a demo of AiroPure® testing against Hydrogen Sulphide



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Preliminary Evaluation of Probe Industries AiroPure System for Antimicrobial Activity

	Organism	Reference	MIC
1	Escherichia coli	NCTC 10418	1/512
2	Klebsiella pneumoniae	NCTC 9528	1/512
3	Providencia rettgeri	NCTC 7475	1/1024
4	Enterobacter cloacae	NCTC 11936	1/512
5	Serratia marcescens	NCTC 10211	1/512
6	Salmonella typhimurium	NCTC 74	1/512
7	Pseudomonas aeruginosa	NCTC 10662	1/512
8	Staphylococci epidermidis	NCTC 11047	1/2048
9	Streptococcus pyogenes	NCTC 8306	≤ 1/4096
10	Enterococcus faecalis	NCTC 775	1/2048
11	Enterococcus faecium	NCTC 7171	1/512
12	Listeria monocytogenes	NCTC 11994	1/1024
13	Staphylococcus aureus	NCTC 6571	1/2048
14	Yersinia enterocolitica	NCTC 11176	1/512
15	Candida albicans	ATCC 90028	1/256
16	Staphylococcus aureus (MRSA)	NCTC 11939	1/2048
17	Burkholderia cepacia	LMG 1222	1/512
18	Bacillus subtilis	NCTC 9372	1/2048
19	Candida glabrata	NCPF 9725	1/256
20	Acinetobacter baumannii	ATCC 19606	1/1024
21	Legionella bozemanii	NCTC 11368	1/1024
22	Legionella pneumophila	NCTC 11406	1/512
23	Legionella micdadei	NCTC 11371	1/512
24	Legionella pneumophila	NCTC 12821	1/1024
25	Bacteroides fragilis	NCTC 8560	1/128
26	Peptostreptococcus anaerobius	NCTC 11460	1/1024
27	Clostridium perfringens	NCTC 10240	1/512
28	Clostridium difficile	NCTC 11204	1/512

Report date: 09/12/2008

Authorised by:
John D. Perry
Clinical Scientist

eurofins

Laboratory Test Report

Report No. 4038/0207/2 Page 2 of 2

Applied Methods:

Method no.	Parameter	Principle	Limit of detection	Uncertainty (1)
MK-4430	Ammonia	Spectrophotometric	0.1 mg/m^3	15%
MK 2418	Butanoic acid	GC/MS	0.1 mg/m^3	15%
MK-8404	Methyl mercaptane	HPLC/DAD/UV	0.1 mg/m^3	15%
Internal	TMA	LC/MS	0.1 mg/m^3	15%

Principle:

For each analyte two air bags with 10 litres of air were used for the test. A solution of the analyte was added to the two bags in the same amount giving bag 1 and bag 2. To bag 2 an equivalent amount of the test product Airopure was added. After the addition of analyte and products the bags were agitated for 30 seconds and rested for 30 minutes before sampling.

(1) However, at least half of the limit of detection absolute

Analytical Results:

Table 2: Measured concentration of pollutants in the test bags.

Results are in mg/m^3

Parameter	Ammonia	Butanoic acid	Methyl mercaptane	TMA
Bag 1	60	440	38	250
Bag 2 (with Airopure product)	<1	64	3.8	1.6
% reduction achieved with Airopure	98%	85%	90%	99.4%

If you'd like to explore the right solution for your site, get in touch today.

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Transforming The Air We Share

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