

## Laboratory Test Report

Report No. 4038/0207/2

Page 1 of 2

**Prepared for:** Newcastle Science City  
Time Central  
32 Gallowgate  
Newcastle upon Tyne  
NE1 4SN

**Sample(s) described as:** **Aiopure**

**Customer reference no:** IQ21

**Date received:** 23/02/10

**Date(s) tested:** 23/02/10 – 12/03/10

**Testing requested:** Odour reduction tests - as detailed below.

### Test Results:

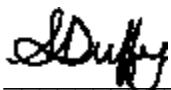
The effect of Aiopure on the content of “pollutants” in a controlled atmosphere is shown in table 1 below.

The effect is calculated as the observed reduction of the content of the pollutants by the addition of the mentioned product.

**Table 1:**

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

The test method and results for analysing the content of the different bags are presented in table 2 on the following page.



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Date: 19th March 2010

The reported results relate exclusively to the tested sample(s)  
Subcontracted to an accredited laboratory within Eurofins

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### Applied Methods:

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

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%