



**BIO-ORGANIC CATALYST**  
THE POWER IN NATURE®

**CASE STUDY**  
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## Odor Neutralization Test Results Hydrogen Sulfide (H<sub>2</sub>S) & Ammonia (NH<sub>3</sub>)

In April 2021, a Chinese government laboratory tested Eco-Cat™ for odor control, to measure reduction in hydrogen sulfide (H<sub>2</sub>S) and ammonia (NH<sub>3</sub>).

**Location:** The Institute of Analysis, Guangdong Academy of Sciences (China National Analytical Center, Guangzhou).

**Method of Testing:** At room temperature (20C) and normal pressure (1 standard atmospheric pressure), 15L hydrogen sulfide gas with a concentration of 0.15mg/m<sup>3</sup>, and a flow rate of 1L /min dose through a large bubble absorption tube with 10ml deodorant and non-circulated, the treated gas will be collected and the concentration of hydrogen sulfide will be analyzed. Testing was made on two sample dilution rates: 1:500 and 1:1000.

### **Results:**

- 1:500 dilution: Odor neutralization % efficiency: ammonia: 86.2%, hydrogen sulfide: 87.3%
- 1:1000 dilution: Odor neutralization % efficiency: ammonia: 86.7%, hydrogen sulfide: 88.8%

**Conclusion:** These results are quite impressive in non-circulated chambers. In actual operations, results are even better as the natural circulation increases Eco-Cat's™ ability to neutralize the noxious gases. Eco-Cat™ demonstrates substantially improved performance over conventional deodorants and essential oils, at a lower price.











## 检测报告

### TEST REPORT

样品名称:	BOC天然异味净-2	报告编号:	2021003985-3 a
Sample Name:	BOC Natural Deodorant-2	Report No.:	
样品批号:	20210322	检测日期:	2021-3-24 至 2021-4-8
Sample Lot No./Batch No.:		Testing Period:	24-Mar To 8-Apr
样品性状:	液体	样品数量:	500mL
Sample Appearance:	Liquid	Sample Quantity	
其他信息:	——		
Other Information:			

### 分析检测结果

#### Test Results

分析项目 Item	检测结果 Result		试验条件下的除臭效率 Deodorizing efficiency under the test condition(%)	检测方法 Method
	处理前浓度 Concentration before treatment (mg/m <sup>3</sup> )	处理后浓度 Concentration after treatment (mg/m <sup>3</sup> )		
氨 Ammonia	1.58	0.21	86.7	CJ/T 516-2017/6.21
硫化氢 Hydrogen sulfide	0.16	0.018	88.8	
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备注 Note	常温常压条件下, 将污染物气体, 以1L/min的流量, 通过装有10mL样品的大型气泡吸收管采集处理后的气体, 分析浓度, 计算除臭效率。 Under the normal temperature and pressure, the pollutant gas is collected through a large bubble absorption tube with 10 mL sample at 1 L/min flow rate, and the concentration of the treated gas is analyzed to calculate the deodorization efficiency.			

