

上海市环境工程设计科学研究院检测报告

样品来源：自采，淮海路兰生大厦厕所内小便斗臭气

委托单位：上海庄臣专业化学品有限公司

采样日期：9/07/03

检测日期：9/07/03~10/07/03

检测项目：细菌总数、臭气 (NH₃、H₂S)

检测内容：检测无水小便斗和普通小便斗在使用中对臭气和细菌去除的对比情况

检测方法：细菌总数：平皿计数法

NH₃：纳氏试剂分光光度法

H₂S：亚甲基蓝分光光度法

检测结果：

项目 容器	细菌总数 (个/ml)	NH ₃ (mg/m ³)	H ₂ S (mg/m ³)
无水小便斗	2.7×10 ³	0.321	ND
普通小便斗	1.36×10 ⁴	0.596	ND

注：细菌总数的制样方法为：用无菌小棉球分别在小便斗取5点，然后将5个小棉球集中定容在10ml灭菌水中。

结论：本次检测结果，无水小便斗的细菌总数比普通小便斗低近5倍；使用无水小便斗的厕所内NH₃的浓度比普通小便斗低近1倍；以上两种类型小便斗的H₂S浓度均未检出。

检测人：沈国萱

评价负责：王敏 (环评) 岗证字第同济—05933号

报告审核：王敏

报告单位：上海市环境工程设计科学研究院环境监测中心

报告日期：4/09/03

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TEST REPORT
By
Shanghai Environment Project Design Institute

Source of sample: Self-collected *off-odor* in the urinals located at the Lanshen Building, Huaihai Road

Submitted by: Shanghai Johnson Chemical Co. Ltd.

Sampling date: 9/07/03

Testing period: 9/07/03 - 10/07/03

Test Item: The number of bacteria and the concentration of *off-odor* (NH₃, H₂S) in the Urinals

Objective: Comparison between Waterfree and Waterflushed urinals regarding their ability in getting rid of bacteria and *off-odors*

Test method:

- bacteria: "Plate Count";
- NH₃ by: "Nash Spectrophotometry";
- H₂S by: "Methyl thionine chloride Spectrophotometry";

Test

result:

Item	No. of Bacteria (no. / ml)	NH ₃ (mg/M ³)	H ₂ S (mg/M ³)
Waterfree Urinal	2.7 x 10 ³	0.321	ND
Waterflushed Urinal	1.36 x 10 ⁴	0.596	ND

calculation method of bacteria - collect 5 spots inside of the urinal with 5 individual bacteria-free tampons. Then combine these 5 tampons and dip them into the 10ml "Sterile Solution".

Conclusion: The total number of bacteria in Waterfree Urinal is 5 times less than the one in waterflushed Urinal. The concentration of NH₃ (mg/M³) in Waterfree Urinal is 1 time less than the one in waterflushed Urinal. No H₂S has been detected in either of the above-mentioned Urinals.

Testing done by: Shen Guo-Xuan
 Appraised by: Wang Min (Environment Appraisal) "Gang-zheng-zi-di-tong-ji" --- No.05933
 Audited by: Wang Min
 Test Report by: Environment Monitor Center of Shanghai Environment Project Design Institute
 Test Date: 4/09/03

Seal: Technical Document Stamp for Shanghai Environment Project Design Institute