

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:

Note:

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.

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Audited by: Wang Min
Test Report by: Environment Monitor Center of Shanghai Environment Project Design Institute
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Seal: Technical Document Stamp for Shanghai Environment Project Design Institute