

MICROBIOLOGY DEPARTMENT 7218

THE PRESIDENT
CRANE GROUP INTERNATIONAL
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Date: 2005-04-18

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2533433/05-1022/Y 57207

1. SAMPLE RECEIVED

Personal / Portable Water Filtration Bottle – Patented flip top (24oz) bottles (design to protect the main spout and top of the bottle from any impurities) were received for microbiological evaluation. Tested on 2005-04-06 and 2005-04-12.

2. TEST REQUESTED

To determine the bactericidal efficacy of the water filtration bottle against three bacteria species.

3. METHOD OF TEST

- 3.1 A 10^5 bacterial suspension of each of the following organisms: *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus* was prepared.
- 3.2 After thorough mixing the suspension were plated out as controls.
- 3.3 500ml of the suspension was placed in the flip top bottle and poured directly from the bottle into a sterile Erlenmeyer flask from which samples were taken plated out for viable counts at 37°C after 48h incubation.
- 3.4 The samples were tested in accordance with:
 - 3.4.1 SABS SM 221 Edition 4 2001: Microbiological quality of water: General test methods.

4. RESULTS/...


4.RESULTS

Table 1: Microbiological examination.

Personal / Portable Water Filtration Bottle – Flip Top

Test organisms	Test organism load per 100ml	Percentage Reduction
<i>Pseudomonas aeruginosa</i>	1×10^5	99,9%
<i>Escherichia coli</i>	1×10^5	99,9%
<i>Staphylococcus aureus</i>	1×10^5	99,9%


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