

**MICROBIOLOGY DEPARTMENT 7218**

**THE PRESIDENT  
CRANE GROUP INTERNATIONAL  
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Date: 2005-05-25

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**SUPPLEMENTARY REPORT****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, 2005-04-12, 2005-05-04 and 2005-05-11.

**2.TEST REQUESTED**

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

**3.METHOD OF TEST**

- 3.1 A  $10^3$  bacterial suspension of each of the following organisms: *Escherichia coli*, *Pseudomonas aeruginos*, *Staphylococcus aureus*, *Salmonella typhi* and *Vibrio cholera* were 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.
  - 3.4.2 Selective growth media to culture each of the bacteria species.

4.RESULTS/...

## 4.RESULTS

Table 1: Microbiological examination.

**Personal / Portable Water Filtration Bottle – Flip Top**

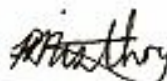
Test organisms	Test organism load per 100ml	Percentage Reduction
<i>Pseudomonas aeruginosa</i>	$1 \times 10^5$	99,9%
<i>Escherichia coli</i>	$1 \times 10^5$	99,9%
<i>Staphylococcus aureus</i>	$1 \times 10^5$	99,9%
<i>Salmonella typhi</i>	$1 \times 10^5$	99,9%
<i>Vibrio cholera</i>	$1 \times 10^5$	99,9%

Note:

A log 3 reduction of each of the bacteria species was achieved.



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MANAGER ; MICROBIOLOGY DEPARTMENT



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