

MICROBIOLOGY DEPARTMENT 7218

**THE PRESIDENT
CRANE GROUP INTERNATIONAL
Attention: Mr Johan Kriek
364 Summit Avenue
Hackensack, NJ 07601 USA**

Your ref: Flip top

Our ref: 17/377

Enquiries: 428-6172/3

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page 1 of 2

2533433/05-1022/Y 57207a

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>	1×10^5	99,9%
<i>Escherichia coli</i>	1×10^5	99,9%
<i>Staphylococcus aureus</i>	1×10^5	99,9%
<i>Salmonella typhi</i>	1×10^5	99,9%
<i>Vibrio cholera</i>	1×10^5	99,9%

Note:

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



RA ROOS
MANAGER ; MICROBIOLOGY DEPARTMENT



R.MISTHRY
MICROBIOLOGIST

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