

TEST REPORT: S09CHM02815-LYP

Date: 02 JUL 2009

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SUBJECT

Microbiological Analysis of Portable Water Purifier

CLIENT

Attn

SAMPLE SUBMISSION DATE / TEST DATE

15 Jun 2009 / 15 Jun 2009

DESCRIPTION OF SAMPLE

One sample consisting of five pieces of "E.L.P(Emergency life preserver) portable water purifier"

METHOD OF TEST

The test microorganisms used were :
Escherichia coli (ATCC 8739)
Staphylococcus aureus (ATCC 6538)
Salmonella typhimurium (ATCC 14028)
Vibrio parahaemolyticus (NCTC 10885)
Legionella pneumophila SG1 (ATCC 33152)

1 litre of sterile water was allowed to pass through the purifier.

1ml of test microorganism inoculum consisting of 10^8 to 10^9 cells was added into 1 litre sterile diluent (0.1% peptone) and pumped through the system for testing

The bacterial counts before and after passing through the system were determined in accordance with:

FDA Bacteriological Analytical Manual Online, January 2001
Chapter 3, "Aerobic Plate Count"



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RESULTS

Test microorganism	Total Bacteria Count, CFU/ml (Before the system)	Total Bacteria Count, CFU/ml (After the system)	% Reduction
<i>Escherichia coli</i>	12 000 000	13	More than 99.99990
<i>Staphylococcus aureus</i>	22 000 000	Less than 1	More than 99.999995
<i>Salmonella typhimurium</i>	5 200 000	Less than 1	More than 99.99998
<i>Vibrio parahaemolyticus</i>	4 900 000	Less than 1	More than 99.99998
<i>Legionella pneumophila</i>	7 800 000	Less than 1	More than 99.999990

Notes :

CFU : Colony Forming Unit

Remarks :

The above test results relate to the samples as received.

MS AW HWEE YING
TECHNICAL EXECUTIVE

MRS KAM-LEONG YIN PHENG
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

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