



STC Test Report

Date : 2006-08-02
No. : HC184628

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Applicant (Code:PAR003) : Park-Rich International Co
Unit 908 Shui Hing Centre
13 Sheung Yuet Rd
Kln Bay HK

Supplier / Manufacturer : Same as applicant

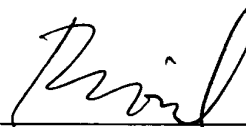
Description of Samples : One submitted sample said to be :
Toothbrush sterilizer carrying the brand name of UV Dental (#3838).

Date Samples Received : 2006-07-15

Date Tested : 2006-07-24 to 2006-07-31

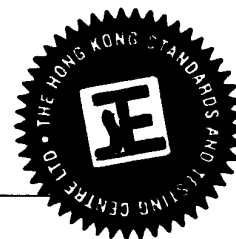
Investigation Requested : Antimicrobial Effectiveness against :
1. *Escherichia coli* (ATCC 25922)
2. *Listeria monocytogenes* (ATCC 7644)
3. *Pseudomonas aeruginosa* (ATCC 9027)
(Oral-B toothbrushes were used)

Conclusions : From the test results, the submitted sample — Toothbrush sterilizer UV Dental (#3838) was able to eliminate 99.59% of the inoculated *Escherichia coli*, 99.15% of the inoculated *Listeria monocytogenes* and 99.92% of the inoculated *Pseudomonas aeruginosa* within 10 minutes.



Boris Lee, CFD
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



The Hong Kong Standards and Testing Centre Ltd.

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Method(s) Used:

1. The submitted was switched on for 10 minutes to warm up.
2. An *Escherichia coli* suspension with known concentration was prepared.
3. 0.2 ml of the suspension was inoculated into each of eight toothbrushes' heads.
4. Four inoculated toothbrushes were put into the sterilizer – UV Dental (#3838).
5. The sterilizer was switched on and operated once (sterilizing time 10 minutes).
6. Another four inoculated toothbrushes acted as controls (not put into sterilizer).
7. Each toothbrush was taken out and the head washed in individual 10 ml sterile water.
8. Total bacteria count was conducted on the washed solutions from the controls and test trials using pour plate method and the plates were incubated at 35°C for 48 hours.
9. Number of colonies on plates was counted.
10. The whole test was repeated using bacteria *Listeria monocytogenes* and *Pseudomonas aeruginosa*.

Test Result(s):

| Test Parameters | Average <i>Escherichia coli</i> Count (CFU/toothbrush) after treatment with UV Dental (#3838) for 10 minutes |
|--|--|
| Number of bacteria added into each toothbrush (controls) | 1,100,000 |
| Number of bacteria recovered from each toothbrush | 4,500 |
| Bacteria Reduction Rate | 99.59% |

| Test Parameters | Average <i>Listeria monocytogenes</i> Count (CFU/toothbrush) after treatment with UV Dental (#3838) for 10 minutes |
|--|--|
| Number of bacteria added into each toothbrush (controls) | 1,000,000 |
| Number of bacteria recovered from each toothbrush | 8,500 |
| Bacteria Reduction Rate | 99.15% |

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| Test Parameters | Average <i>Pseudomonas aeruginosa</i> Count (CFU/toothbrush) after treatment with UV Dental (#3838) for 10 minutes |
|--|--|
| Number of bacteria added into each toothbrush (controls) | 950,000 |
| Number of bacteria recovered from each toothbrush | 790 |
| Bacteria Reduction Rate | 99.92% |

Notes: CFU denotes colony forming unit

Bacteria Reduction Rate = $\frac{\text{no. of bacteria added} - \text{no. of bacteria recovered after treatment}}{\text{no. of bacteria added}} \times 100$

******* End of Test Report *******

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