



STC Test Report

Date : 2006-05-02
No. : HC180115

Page 1 of 2

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 sanitizer carrying the brand name of UV Dental Travel
(#3828)

Date Samples Received : 2006-04-19

Date Tested : 2006-04-24 to 2006-04-28

Investigation Requested : Antimicrobial Effectiveness against *Escherichia coli* (ATCC 25922)
(Oral-B toothbrushes were used)

Conclusions : From the test results, the submitted sample was able to eliminate
99.16% of the inoculated *E. coli* at low UV dosage and 99.86% of the
inoculated *E.coli* at high UV dosage within 7 minutes.


Ellen Ngai, CFB

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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Page 2 of 2

Method(s) Used:

1. An *Escherichia coli* suspension with known concentration was prepared.
2. 0.2 ml of the suspension was inoculated into each of eight toothbrushes' heads.
3. Each time one inoculated toothbrush was put into the sanitizer.
4. The sanitizer was switched on and operated for 7 minutes at low UV dosage.
5. Step 3. to 4. were repeated three more times.
6. Each toothbrush was taken out and the head washed in individual 10 ml sterile water.
7. Another four inoculated toothbrushes acted as controls (not put into sanitizer).
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. Repeat test using high UV dosage.

Test Result(s):

Test Parameters	Average Bacteria Count (CFU/toothbrush) after low UV dosage treatment with UV Dental Travel (#3828) for 7 minutes
Number of bacteria added into each toothbrush (controls)	920,000
Number of bacteria recovered from each toothbrush	7,700
Bacteria Reduction Rate	99.16%

Test Parameters	Average Bacteria Count (CFU/toothbrush) after high UV dosage treatment with UV Dental Travel (#3828) for 7 minutes
Number of bacteria added into each toothbrush (controls)	920,000
Number of bacteria recovered from each toothbrush	1,300
Bacteria Reduction Rate	99.86%

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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