



STC Test Report

Date : 2006-05-12
No. : HC180620

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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 : Two submitted samples said to be toothbrush sanitizers carrying the brand names of :
1. **Brand A**
2. **Brand B**

Date Samples Received : 2006-04-29

Date Tested : 2006-05-02 to 2006-05-10

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

Conclusions : From the test results, the submitted sample — **Brand A** was able to eliminate 88.37% of the inoculated *E. coli*. **Brand B** was able to eliminate 53.49% of the inoculated *E. coli*.

Boris Lee, CFD
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

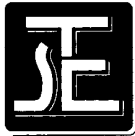


The Hong Kong Standards and Testing Centre Ltd.

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Method(s) Used:

1. 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 – **Brand A**
4. The sanitizer was switched on and operated once.
5. Steps 3. to 4. were repeated three more times.
6. Another four inoculated toothbrushes acted as controls (not put into sanitizer).
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 another sample sanitizer - **Brand B**

Test Result(s):

Test Parameters	Average Bacteria Count (CFU/toothbrush) one treatment with Brand A
Number of bacteria added into each toothbrush (controls)	860,000
Number of bacteria recovered from each toothbrush	100,000
Bacteria Reduction Rate	88.37%

Test Parameters	Average Bacteria Count (CFU/toothbrush) one treatment with Brand B
Number of bacteria added into each toothbrush (controls)	860,000
Number of bacteria recovered from each toothbrush	400,000
Bacteria Reduction Rate	53.49%

Notes: CFU denotes colony forming unit

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

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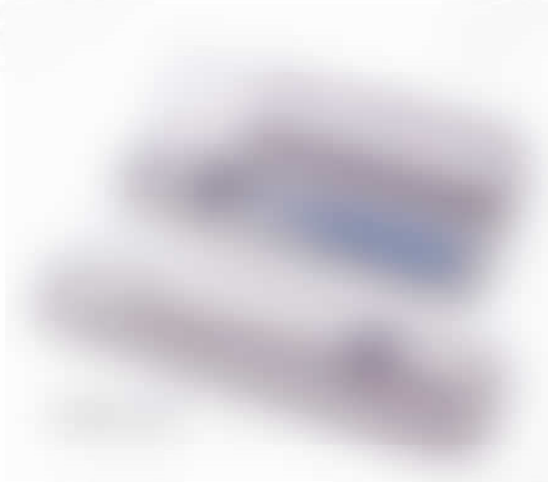


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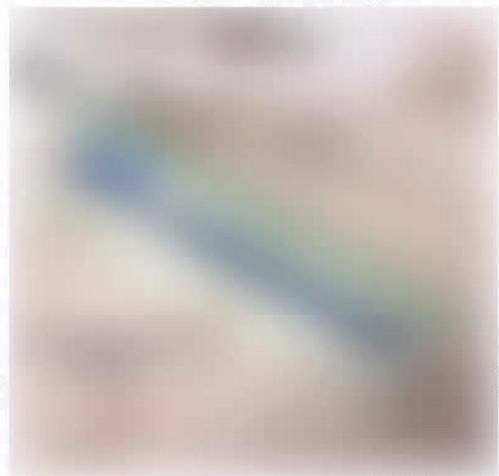
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Product Photo



Brand A



Brand B

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

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