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Tarikh: 11 Julai 2008

En Leonard Cruz
Managing Director
Soma Medical Sdn Bhd
No 2-4-2, 4th Floor
Menara KLH Business Center
2nd Mile Off Jalan Ipoh
51200. Kuala Lumpur

Tuan,

Laporan Penilaian Produk SM Anion / Nano TiO₂ Air Purifier Lamp ke atas Hama Debu Rumah

Dengan hormatnya dimaklumkan bahawa penilaian SM Anion / Nano TiO₂ Air Purifier Lamp ke atas 2 spesies hama debu rumah, iaitu *Dermatophagoides pteronyssinus* dan *Dermatophagoides farinae* telah siap. Bersama ini dikemuka laporan penilaian berkaitan.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,

(DR HO TZE MING)

Salinan difaks pada:
11 JUL 2008



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Infectious Diseases Research Centre
Institute for Medical Research
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Form APE-1

Our Reference: IMR/IDRC/ACARO/23/2307 (5)

PRODUCT EVALUATION REPORT

Name of Client: Soma Medical Sdn Bhd

Name of Product: SM Anion / Nano TiO₂ Air Purifier Lamp

Description / Specification of Product: Air purifier lamp based on advanced nano-hydrosynthetic technology used for indoor air pollutant control, mold prevention and is anti-bacteria. Lamp discharges >800,000 negative ions/cm³.

Date Product Received: 9 April 2008

Date Product Evaluated: 4 July 2008

Reference Number of Sample of Product for Evaluation: SM 1152

Type of Evaluation Conducted: Direct exposure of mites in closed chamber.

- House dust mites: 270 adult male and female *Dermatophagoides pteronyssinus* and *Dermatophagoides farinae* per exposure period.
- Test Chamber: A closed laminar flow cabinet.
- Lamps: 4 lamps operated at 220-240V.
- Exposure periods: 15 min, 30 min, 60 min, 8 hours, and 24 hours.
- Bioassay procedure: Mites are confined on Whatman no. 1 filter papers that are attached to plastic Petri dishes. Dishes with mites are then placed inside the laminar flow chamber fixed with 4 test lamps and exposed for various periods. Mortality of mites are recorded after the exposure period.

Results of Evaluation:

- The lethal time to kill 50% (LT₅₀) and 90% (LT₉₀) of *D. pteronyssinus* is 17.4 and 1733.0 hours respectively with regression line $Y=0.64X - 1.93$ (where Y=mortality, X=time).
- The lethal time to kill 50% (LT₅₀) and 90% (LT₉₀) of *D. farinae* is 6.6 and 369.0 hours respectively with regression line $Y=0.73X - 1.90$ (where Y=mortality, X=time).

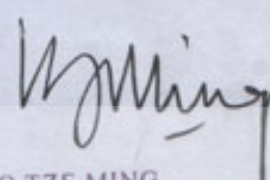
Recommendations: None

Report Prepared
By:

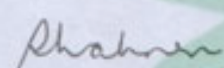

ERNIEENOR FARAJANA BT. CHE LAH

Pegawai Penyelidik
Pusat Penyelidikan Penyakit Berjangkit (Akarologi)
Institut Penyelidikan Perubatan
50588 Kuala Lumpur.

Report Verified
By:


DR. HO TZE MING
Pegawai Penyelidik Kanan
Pusat Penyelidikan Penyakit Berjangkit (Akarologi)
Institut Penyelidikan Perubatan

Report Authorized
By:


Dr. Shahnaz Merad
Pegarah
Institut Penyelidikan Perubatan
Kuala Lumpur

Date of Report: 8 July 2008

- Note 1: This report is only valid for the sample of product submitted for evaluation.*
Note 2: This report and its contents shall not be reproduced without the approval of the Head of the Acarology Unit, Institute for Medical Research.
Note 3: The evaluation of the product is not an endorsement of the product by the Institute for Medical Research.

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