



Lab No.: C 150/03

Date: 12 May 2003

REPORT

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on Disinfectant Solution

1 sample received from Guardian Laboratories Pte Ltd

on 7 May 20 03

SAMPLE DESCRIPTION

One bottle of sample bearing commercial label,

“ Virotro EX
Batch No. : GRGD 593
Guardian Laboratories Pte Ltd ”

TEST METHOD

Modified Kelsey Sykes Capacity Test Option for Household / Commercial Grade Disinfectant under clean conditions. Two test organisms, *Escherichia coli* NCTC 8196 and *Staphylococcus aureus* NCTC 4163 were used. The inoculum size of each of the test organisms was not less than 2×10^8 or more than 2×10^9 organisms introduced individually into the individual disinfectant samples. The disinfectant was tested at neat without dilution.

The method is essentially that given by Kelsey & Maurer (Kelsey, J.C and Maurer Isobel, M. Pharmaceutical Journal (UK) 213: 528-230, (1974)). The disinfectant is tested at the use-concentration recommended by the manufacturer. The test consists of challenging the disinfectant with bacterial inoculum, withdrawing a sample after a given exposure time (8 minutes) and culturing the sample in a suitable recovery culture medium. The sample is passed or failed according to the extent of growth shown in the cultures sampled.


Dr Charles Tang
Sr. Principal Scientific Officer
Pharmaceutical Microbiology Laboratory
Department of Pathology



Your Ref :

Our Ref : T12300/ST

Date : 26/05/2003

TEST REPORT

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Subject : Testing of 'Virotro EX' disinfectant to determine its anti-bacterial effect submitted by Guardian Laboratories Pte Ltd on 12/05/2003.

Tested For : **Guardian Laboratories Pte Ltd**
30 Penjuru Road
Singapore 609135
Attn: Mr Goh Hui Lip

Test Method : In-house (Direct Exposure Method) - Please refer to Appendix 1

Test Organisms used:

- 1) *Legionella pneumophila* (ATCC 43111)
- 2) *Pseudomonas aeruginosa* (ATCC 9027)
- 3) *Salmonella typhimurium* (ATCC 14028)

Sample Reference :

Sample ID No.	Sample Description
T12300001	Product Name: Virotro EX Batch Number: GRGD 593

Summary of Results :

Test Organisms	*Reduction rate on Test Strains	
	1 min exposure	5 min exposure
<i>Legionella pneumophila</i> (ATCC 43111)	>99.99%	>99.99%
<i>Pseudomonas aeruginosa</i> (ATCC 9027)	>99.99%	>99.99%
<i>Salmonella typhimurium</i> (ATCC 14028)	>99.99%	>99.99%

* Based on 'Virotro EX' disinfectant (Batch Number: GRGD 593) sample as received.

Micro Test Report T12300/CTH

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