SIRIM Berhad
Industrial Biotechnology Research Centre, Building 19.
Tel: 03-55446953/6954 Fax: 03-55446988

TEST REPORT

REPORT NO: R144/11/B19-26	PAGE: 1 OF 2

Applicant : En. Syed Zainul Abidin

Company : D'Haifa Trade Sdn Bhd

Sample : Hard Surface Disinfectant

Reference standard /Method of Test :Chemical Disinfectants and Antiseptic-Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics-Test method requirements (phase 1). BS EN 1040:2005 (with modification).

Bactericidal/Fungicidal activity were evaluated using the following microorganism:

1.	Pseudomonas aeruginosa	ATCC 9027
2.	Escherichia coli	ATCC 8739
3.	Staphylococcus aureus	ATCC 25923
4.	Candida albicans	ATCC 10231
5.	Aspergillus niger	ATCC 16404

1ml of bacterial suspension of 10^8 or fungi/yeast suspension of 10^5 were spiked into 9ml of samples and incubated in water bath at 30^0C for 5 minutes (contact time).
Immediately after 5 minutes, 1ml was then transfered into 9ml neutralizer (Phosphate Buffer) and further incubated in water bath at 30^0C for 5 minutes. One ml was then transfered into tryptone water and serial dilution perfomed. Viable cell count of microbial cells that survived after treatment was determined using Tryptic Soy Agar by pour plate method. As a control, similar tests were carried out using sterile water insted of sample.

Description of Sample : Received one (1) sample with the following identification:

1. **Hard Surface Disinfectant (Liquid)**

Date Received : 18 April 2011

Job No. : J144/11

Issue Date : 03 May 2011

Approved signatories

.....
(MOHD KHAIRUL AZWAN BIN AHMAD)
Researcher,
Industrial Biotechnology Research Centre,
Sirim Berhad.

.....
(DR. NEELAM SHAHAB, *AMIC*)
Sr. Principal Reseacher,
Industrial Biotechnology Research Centre,
Sirim Berhad.

SIRIM Berhad
(No. Syarikat 367474 - V)
1, Persiaran Dato' Menteri
Seksyen 2, Peti Surat 7035
40911 Shah Alam
MALAYSIA
Tel: 60-3-55446000
Hotline: 60-3-55103535
Faks: 60-3-55108095
Website : www.sirim.my

TEST REPORT

REPORT NO: R144/11/B19-26	PAGE: 2 OF 2

Results

Bactericidal and fungicidal activity of Hard Surface Disinfectant (liquid):

No	Challenge Microorganism	**Cfu/ml in Test mixture at the beginning of test (N_0)	Cfu/ml in test mixture after 5 minutes contact time (N_a^*)		
			Test sample: **Hard Surface Disinfectant (Liquid)**	Control Sample: Sterile distilled Water	#Percentage reduction of viable cells %
1.	***Pseudomonas aeruginosa*** **ATCC 9027**	5.30×10^7	1.90×10^3	4.90×10^7	99.99
2.	***Escherichia coli*** **ATCC 8739**	4.50×10^7	2.0×10^3	4.75×10^7	99.99
3.	***Staphylococcus aureus*** **ATCC 25923**	1.70×10^7	1.45×10^3	1.55×10^7	99.99
4.	***Candida albicans*** **ATCC 10231**	8.00×10^4	<100	8.50×10^4	99.99
5.	***Aspergillus niger*** **ATCC 16404**	4.00×10^4	<100	4.25×10^4	99.99

Note :

**cfu – colony forming units

*$Na = 10c/n$

Where **c** – colony forming units

n - number of c values taken;

10 is dilution factor

#Percentage Reduction of viable cells = $\frac{N_0 - Na}{N_0} \times 100$