

# TEST REPORT: 7191050462-CHM13-LYP

Date: 03 JAN 2013

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## SUBJECT

Microbiological Evaluation of Wet Towel

## CLIENT

Freshening Industries Pte Ltd  
4 Loyang Link  
Singapore 508895

Attn : Elena Nora Beronio

## SAMPLE SUBMISSION DATE / TEST DATE

19 Dec 2012 / 19 Dec 2012

## DESCRIPTION OF SAMPLES

2 wet towel samples as follows:

1. HospiCare 70 Isopropyl Alcohol 70% v/v Wipes  
Mfg. Date: 221012  
Exp. Date: 220414 (18 months from date of manufacture)  
No. of samples = 2 pcs
2. HospiCare 7 70% v/v Wipes  
Mfg. Date: 300812  
Exp. Date: 300814  
No. of samples = 2 pcs



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TUV®

### METHOD OF TEST

The samples were suspended in 100 ml of sterile phosphate buffered dilution water in sterile sampling bags and stomached to dislodge any microorganisms adhering to them.

The rendered dilution water from the samples were then analysed for *Bacillus cereus* in accordance with :

BS EN ISO 7932 : 2004

"Microbiology – General guidance for the enumeration of *Bacillus cereus* – Colony count technique at 30°C"

### RESULTS

Sample	Detection of <i>Bacillus cereus</i>
1. HospiCare 70 Isopropyl Alcohol 70% v/v Wipes Mfg. Date: 221012 Exp. Date: 220414 (18 months from date of manufacture) no. of samples = 2 pcs	Not detected
2. HospiCare 7 70% v/v Wipes Mfg. Date: 300812 Exp. Date: 300814 No. of samples = 2 pcs	Not detected

#### Notes :

CFU : Colony Forming Unit

#### Remarks :

The above test results relate to the samples as received.



MS AW HWEE YING  
TECHNICAL EXECUTIVE



MRS KAM-LEONG YIN PHENG  
PRODUCT MANAGER  
MICROBIOLOGY  
CHEMICAL & MATERIALS

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July 2011



**TEST REPORT: 7191055410-CHM13-02B-LYP**  
22 MAR 2013



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**RESULTS**

Product Name : "Hospicare 70% IPA Solution 600ml, Date: 21 Feb 2013"

Test Microorganism : *Candida albicans* (ATCC 10231)

Concentration / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Percentage of reduction, %	Log Reduction
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
60 Minutes	56 000 000	7.75	Less than 10	1	More than 99.99992	More than 6.75

Test Microorganism : *Aspergillus niger* (ATCC 16404)

Concentration / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Percentage of reduction, %	Log Reduction
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>		
60 Minutes	3 200 000	6.51	Less than 10	1	More than 99.9997	More than 5.51

Remarks :

**Fungicidal activity**

The product shall be deemed to have passed the EN 13624 standard if it demonstrates in a valid test at least a 4 lg reduction within 60 min or less at 20°C with the chosen interfering substance (clean or dirty conditions) under the conditions defined by this standard when the test organisms are *Aspergillus niger* and *Candida albicans*.

**Yeasticidal activity**

If a product passes the test only with *Candida albicans* it is characterized as possessing yeasticidal activity.

**TEST REPORT: 7191055410-CHM13-01B-LYP**  
19 APR 2013



PSB Singapore

**RESULTS**

Product Name : "Hospicare 70% IPA Solution 500ml, Date: 21 Feb 2013"

Test Microorganism : *Staphylococcus aureus* (ATCC 6538)

Concentration / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Percentage of reduction, %
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>	
5 Minutes	46 000 000	7.66	Less than 10	1	More than 99.99998

Test Microorganism : *Enterococcus hirae* (ATCC 10541)

Concentration / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Percentage of reduction, %
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>	
5 Minutes	96 000 000	7.98	Less than 10	1	More than 99.999990

Test Microorganism : *Pseudomonas aeruginosa* (ATCC 15442)

Concentration / Contact Time	Initial Count of Test Microorganism per ml of Test Mixture		Count of Surviving Test Microorganism per ml		Percentage of reduction, %
	CFU per ml	Log <sub>10</sub>	CFU per ml	Log <sub>10</sub>	
5 Minutes	450 000 000	8.65	Less than 10	1	More than 99.999998