

TEST REPORT: 7191031287-CHM12-01-LYP

Date: 13 APR 2012

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Client's Ref: -

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SUBJECT

Microbiological Analysis of Sanitary Napkin

CLIENT

Takara Holdings Pte Ltd
Block 5028,
Ang Mo Kio Industrial Park 2, #01-185,
Singapore 569531

Attn : Mr Peter Teo

SAMPLE SUBMISSION DATE / TEST DATE

09 Apr 2012 / 10 Apr 2012

DESCRIPTION OF SAMPLE

1 sample of "ADORE" sanitary napkin was submitted.

METHOD OF TEST

JIS L 1902 : 2002 "Testing for antibacterial activity and efficacy on textile products"

The test microorganism used was :

Staphylococcus aureus (ATCC 6538P)
Klebsiella pneumoniae (ATCC 4352)

The green strips were removed from the sanitary napkin samples and used for the test.



TÜV SÜD PSB

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RESULTS

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Bacteriostatic Activity Value (Criteria : Not less than 2.0)	Bactericidal Activity Value (Criteria : Not less than 0)
	0 hour	18 hours		
<i>Staphylococcus aureus</i> (ATCC 6538P) (1.4 x 10⁵ cells) Standard Cloth (Control)	15 000	7 000 000	-	-
	"ADORE" sanitary napkin	-	Less than 20	More than 5.55

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Bacteriostatic Activity Value (Criteria : Not less than 2.0)	Bactericidal Activity Value (Criteria : Not less than 0)
	0 hour	18 hours		
<i>Klebsiella pneumoniae</i> (ATCC 4352) (2.2 x 10⁵ cells) Standard Cloth (Control)	20 000	2 100 000	-	-
	"ADORE" sanitary napkin	-	Less than 20	More than 5.02

Remarks:

Bacteriostatic Activity Value is calculated as log₁₀ of average number of viable bacterial cells on the Standard Cloth (Control) after 18 hours minus the log₁₀ of the average number of viable bacteria cells on the sanitary napkin after 18 hours.

Bactericidal Activity Value is calculated as log₁₀ of average number of viable bacterial cells on the Standard Cloth (Control) at 0 hour minus the log₁₀ of the average number of viable cells on the sanitary napkin after 18 hours.

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The above test results relate to the sample as received.

A handwritten signature in black ink, appearing to read 'Hwying'.

MS AW HWEE YING
TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read 'Yp Pheng'.

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



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July 2011

