



## STC Test Report

Date : 2010-11-11  
No. : HC266892

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**Applicant(Code:VTT001)** : VTech Telecommunications Ltd  
Blk 1 23/F Tai Ping Industrial Centre  
57 Ting Kok Road  
Tai Po NT HK

**Description of Sample(s)** : Two submitted samples said to be Plastic Material.  
1. ABS with (UV-1% DAW 502) spray on surface  
2. ABS with (UV-0.5% DAW 502) spray on surface

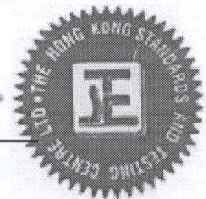
Sample(s) Received Condition(s): In plastic bag under ambient temperature

**Date Sample(s) Received** : 2010-11-01

**Date Tested** : 2010-11-03 to 2010-11-06

**Investigation Requested** : Antibacterial Effectiveness against  
- *Escherichia coli* 大腸桿菌 (ATCC 8739)  
- *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)

**Conclusion(s)** : 1. From the test results, the submitted sample – ABS with (UV-1% DAW 502) spray on surface was able to eliminate 87.19% of the inoculated *Staphylococcus aureus* and 99.94% of the inoculated *Escherichia coli*.  
根據測試結果，提供之樣品 –ABS with (UV-1% DAW 502) spray on surface 能殺除百分之八十七點一九接種的金黃色葡萄球菌及百分之九十九點九四接種的大腸桿菌。  
2. From the test results, the submitted sample – ABS with (UV-0.5% DAW 502) spray on surface was able to eliminate 88.44% of the inoculated *Staphylococcus aureus* and 99.80% of the inoculated *Escherichia coli*.  
根據測試結果，提供之樣品 –ABS with (UV-0.5% DAW 502) spray on surface 能殺除百分之八十八點四四接種的金黃色葡萄球菌及百分之九十九點八零接種的大腸桿菌。



LIU Kit Yuen, Bithiah  
Authorized Signatory  
Chemical and Food Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

In the event of any discrepancy between the English and Chinese versions of the text mentioned before, the English version shall prevail to the extent of such discrepancy only.

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The Hong Kong Standards and Testing Centre Ltd.

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### Method(s) Used:

Ref. JIS Z 2801 : 2000

### Test Result(s):

ABS with (UV + 1% DAW 502) spray on surface

Bacteria inoculated	Initial bacteria count CFU/ml (right after inoculation)	Test pieces	Average bacteria count CFU/sample (after incubation at 35°C for 24 hours)	Bacteria Reduction Rate
<i>Escherichia coli</i> 大腸桿菌 (ATCC 8739)	200,000	Control	5,900,000	N/A
		Treated sample	3,500	99.94%
<i>Staphylococcus aureus</i> 金黃色葡萄球菌 (ATCC 6538)	190,000	Control	32,000	N/A
		Treated sample	4,100	87.19%

ABS with (UV + 0.5% DAW 502) spray on surface

Bacteria inoculated	Initial bacteria count CFU/ml (right after inoculation)	Test pieces	Average bacteria count CFU/sample (after incubation at 35°C for 24 hours)	Bacteria Reduction Rate
<i>Escherichia coli</i> 大腸桿菌 (ATCC 8739)	220,000	Control	5,900,000	N/A
		Treated sample	12,000	99.80%
<i>Staphylococcus aureus</i> 金黃色葡萄球菌 (ATCC 6538)	190,000	Control	32,000	N/A
		Treated sample	3,700	88.44%

### Remarks:

- CFU denotes Colony Forming Unit
- Average bacteria count is obtained by taking the average of counts from same type of test pieces
- Treated sample : Treated with DAW502 + UV
- Control sample : Untreated sample with UV only
- Bacteria Reduction Rate =  $\frac{\text{Average of Control} - \text{Average of Treated sample}}{\text{Control}} \times 100$

\*\*\*\*\* End of Test Report \*\*\*\*\*

香港標準及檢定中心有限公司  
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