

**TEST REPORT**

Report Number : 15-0826-045-01-B

Date Received : 2015/08/26

Applicant : You Yuan Technology Co., LTD

Sample Name : Nano-Silver Yarns (Ag+)Active Antimicrobial Spray

Test Period : 2015/08/26 ~ 2015/10/11

Sample Info : New

Date Issued : 2016/09/06

Applicant Address : No.116, Zhongshan Rd., Toufen Township, Miaoli County 351,Taiwan (R.O.C.)

Item(s)	Result(s)	Remark(s)
Antimicrobial test of <i>Escherichia coli</i>		
Antimicrobial test of <i>Staphylococcus aureus</i>	<b>Shown as the table</b>	
Silver (Ag)		

~~~~The End~~~~

Method :

Reference customer's specific testing method.

Test procedure :

Control bacterial count : Measured diluted type culture strain (*Escherichia coli* (*E. coli*): BCRC 11634, *Staphylococcus aureus* (*S. aureus*): BCRC 12154) and calculated control bacterial count.

Test : Inject 200 mL of water into the sample bottle (Nano-Silver Yarns (Ag+) Active Antimicrobial Spray). Allow to stand for 0 minute, 30 minutes, and 24 hours. When each point time's up, shaking the bottle 5 times and taking 20 mL Ag-released liquid to test the content of silver. For the antimicrobial test, adding measured culture strain (*E. coli*: BCRC 11634, *S. aureus*: BCRC 12154) into these 20 mL Ag-released liquid and waiting for 5 minutes, then performing the test.

Calculate antimicrobial rate : Antimicrobial rate (%) = (control bacterial count-final bacterial count)/control bacterial count x 100%



Authorized Representative:

1. Samples and names were provided by the client. The lab was responsible for analysis only.
2. The analysis results are only effective for the samples in this report.
3. The report is for reference only and not for commercial or legal purposes
4. Contents of the report may only be reproduced in full. Partial copies may not be made without permission.
5. This report will be rendered invalid if altered.
6. N.D. means Non Detected.
7. Positive means Detected. Negative means Non Detected.

**TEST REPORT**

Report Number : 15-0826-045-01-B

**Result :**

***E. coli*: BCRC 11634**

| time                             | 0 minute            | 30 minutes          | 24 hours            |
|----------------------------------|---------------------|---------------------|---------------------|
| control bacterial count (CFU/mL) | 2.2*10 <sup>6</sup> | 2.2*10 <sup>6</sup> | 2.2*10 <sup>6</sup> |
| final bacterial count (CFU/mL)   | 2.2*10 <sup>6</sup> | 9.2*10 <sup>5</sup> | 6.2*10 <sup>5</sup> |
| antimicrobial rate (%)           | 0.0%                | 58.2%               | 71.8%               |

***S. aureus*: BCRC 12154**

| time                             | 0 minute            | 30 minutes          | 24 hours            |
|----------------------------------|---------------------|---------------------|---------------------|
| control bacterial count (CFU/mL) | 2.8*10 <sup>4</sup> | 2.8*10 <sup>4</sup> | 2.8*10 <sup>4</sup> |
| final bacterial count (CFU/mL)   | 2.8*10 <sup>4</sup> | 1.9*10 <sup>4</sup> | 1.1*10 <sup>4</sup> |
| antimicrobial rate (%)           | 0.0%                | 32.1%               | 60.7%               |

***E. coli*: BCRC 11634 + *S. aureus*: BCRC 12154**

| time                             | 0 minute            | 30 minutes          | 24 hours            |
|----------------------------------|---------------------|---------------------|---------------------|
| control bacterial count (CFU/mL) | 2.2*10 <sup>6</sup> | 2.2*10 <sup>6</sup> | 2.2*10 <sup>6</sup> |
| final bacterial count (CFU/mL)   | 2.2*10 <sup>6</sup> | 1.4*10 <sup>6</sup> | 8.3*10 <sup>5</sup> |
| antimicrobial rate (%)           | 0.0%                | 37.2%               | 62.7%               |



Authorized Representative:

1. Samples and names were provided by the client. The lab was responsible for analysis only.
2. The analysis results are only effective for the samples in this report.
3. The report is for reference only and not for commercial or legal purposes
4. Contents of the report may only be reproduced in full. Partial copies may not be made without permission.
5. This report will be rendered invalid if altered.
6. N.D. means Non Detected.
7. Positive means Detected. Negative means Non Detected.

**TEST REPORT**

Report Number : 15-0826-045-01-B

**Result :**

**Silver (Ag)**

| time      | 0 minute | 30 minutes | 24 hours |
|-----------|----------|------------|----------|
| Ag (mg/L) | -        | 0.033      | 0.093    |

sample photo :



Authorized Representative:

*Joychen*

1. Samples and names were provided by the client. The lab was responsible for analysis only.
2. The analysis results are only effective for the samples in this report.
3. The report is for reference only and not for commercial or legal purposes
4. Contents of the report may only be reproduced in full. Partial copies may not be made without permission.
5. This report will be rendered invalid if altered.
6. N.D. means Non Detected.
7. Positive means Detected. Negative means Non Detected.