



**Test Report**

**Report No: ASH14-025972-01**

**Date: Sep 02 2014**

Client name: TITANPE TECHNOLOGIES,INC.  
 Client address: BD 7, NO. 198, CHANGHE ROAD, SHANGHAI, PRC  
 Sample name: AG425K Coated Sample  
 Sample Batch No.: /  
 Product Date: /  
 Manufacturer: TITANPE TECHNOLOGIES,INC.

**Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.**

SGS Sample No.: ASH14-025972.001  
 Date of sample received: Aug 22 2014  
 Testing period: Aug 22 2014 ~ Sep 02 2014

**TEST(S) REQUESTED:**

Selected test(s) as requested by applicant  
Antibacterial Assessment for the submitted sample

**TEST METHOD:**

JIS L 1902:2008 The Method of antibacterial test and assessment of antibacterial effectiveness for textiles, Chapter 10: Quantitative test (Absorption method)

**TEST RESULT(S):**

Please refer to the next page(s)

**CONCLUSION:**

**Pass:** The Log value of bacteriostatic for *Listeria monocytogenes* is 3.8, complies with JIS L 1902:2008 Specification for antibacterial finish (The bacteriostatic activity value shall be  $\geq 2.0$  for antibacterial finish). (According to client's requirement, judge with reference to JIS L 1902:2008)



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Date: Sep 02 2014

**TEST ORGANISMS:**

*Listeria monocytogenes* 54001

**TEST RESULT(S):**

Name of test bacteria (Strain number)	<i>Listeria monocytogenes</i> (54001)
Concentration of inoculum (CFU/mL)	2.7x10 <sup>5</sup>
The growth value on the control sample F (F=M <sub>b</sub> -M <sub>a</sub> )	+2.2 (M <sub>b</sub> :+6.7, M <sub>a</sub> :+4.5)
The growth value on the antimicrobial-treated sample (M <sub>c</sub> - M <sub>d</sub> )	-1.6 (M <sub>c</sub> :+2.9, M <sub>d</sub> :+4.5)
Bacteriostatic activity value S= (M <sub>b</sub> -M <sub>a</sub> )- (M <sub>c</sub> -M <sub>d</sub> )	3.8
Bactericidal activity value L= M <sub>a</sub> -M <sub>c</sub>	1.6
Incubation time (h)	18
Measuring method	Plate count method

**REMARK:**

M<sub>a</sub>: The average of log value of bacteria obtained from the three control samples that inoculated the test germ after 0h.

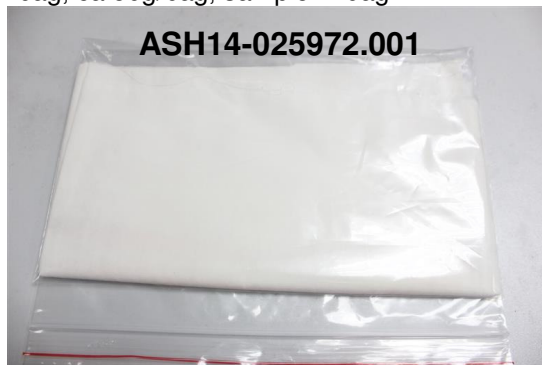
M<sub>b</sub>: The average of log value of bacteria obtained from the three control samples that inoculated the test germ after 18h.

M<sub>c</sub>: The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 18h.

M<sub>d</sub>: The average of log value of bacteria obtained from the three antibacterial finishes that inoculated the test germ after 0h

The control sample is standard cotton cloth specified by JISL 1902:2008, provided by SGS lab.

**SAMPLE DESCRIPTION:** 1 bag, ca.50g/bag, sample in bag



ASH14-025972.001

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

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