

# TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

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 Business Reg. No. 196900269D

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Your Ref: -

Our Ref: FB 141111/2A

Date: 06/04/2018

**Subject** : Antimicrobial Test of 'AK-13003-CN74 (Lot: 80124103)' samples. The samples submitted by PT AICA INDONESIA on 30/01/2018 and testing commenced on 01/02/2018.

**Test For** : **PT AICA INDONESIA**  
 Jl. Ir. H. Juanda No. 318  
 Bekasi Timur, West Java  
 17113, Indonesia  
**Attention: Dummy B.Y. Putro**

**Test Method** : JIS Z 2801:2010

**Test Organisms** : *E.coli, S.aureus, P.aeruginosa, E.faecalis, S.typhimurium, K.pneumoniae*

**Results** :

Bacteria	Inoculums cells/cm <sup>2</sup>	U <sub>0</sub> cells/cm <sup>2</sup>	U <sub>t</sub> cells/cm <sup>2</sup>	A <sub>t</sub> cells/cm <sup>2</sup>	R
<i>E.coli</i>	6.8 x 10 <sup>5</sup> (5.8)	5.3 x 10 <sup>4</sup> (4.7)	2.4 x 10 <sup>4</sup> (4.4)	<0.63 (-0.2)	4.6
<i>S.aureus</i>	3.5 x 10 <sup>5</sup> (5.5)	5.0 x 10 <sup>4</sup> (4.7)	6.4 x 10 <sup>4</sup> (4.8)	<0.63 (-0.2)	5.0
<i>P.aeruginosa</i>	4.1 x 10 <sup>5</sup> (5.6)	5.0 x 10 <sup>4</sup> (4.7)	1.9 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>E.faecalis</i>	3.4 x 10 <sup>5</sup> (5.5)	5.2 x 10 <sup>4</sup> (4.7)	2.1 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>S.typhimurium</i>	8.4 x 10 <sup>5</sup> (5.9)	4.4 x 10 <sup>4</sup> (4.6)	1.9 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>K.pneumoniae</i>	4.5 x 10 <sup>5</sup> (5.7)	1.2 x 10 <sup>4</sup> (4.1)	6.8 x 10 <sup>3</sup> (3.8)	<0.63 (-0.2)	4.0

**Conclusion:** Based on the results obtained, the sample has *passed* the Antimicrobial Efficacy Test by obtaining log value more than 2.0 log reductions in accordance with JIS Z 2801:2010.

**Remark:-**

- U<sub>0</sub> indicate average value of bacteria immediately after inoculation on untreated test pieces.
- U<sub>t</sub> indicate average value of bacteria after inoculation on untreated test pieces after 24 hours.
- A<sub>t</sub> indicate average value of bacteria after inoculation on treated test pieces after 24 hours.
- R indicate the log value of Antibacterial Activity – "Formula: R = (U<sub>t</sub> - U<sub>0</sub>) - (A<sub>t</sub> - U<sub>0</sub>) = (U<sub>t</sub> - A<sub>t</sub>)".
- Values in bracket indicate the log value.



**LOW HWEE TENG**  
**SENIOR MANAGER**  
**BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION**

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Your Ref: -

Our Ref: FB 141111/1A

Date: 06/04/2018

**Subject** : Antimicrobial Test of 'AK-14015-CS62 (Lot: 80123101)' samples. The samples submitted by PT AICA INDONESIA on 30/01/2018 and testing commenced on 01/02/2018.

**Test For** : **PT AICA INDONESIA**  
 Jl. Ir. H. Juanda No. 318  
 Bekasi Timur, West Java  
 17113, Indonesia  
**Attention: Dummy B.Y. Putro**

**Test Method** : JIS Z 2801:2010

**Test Organisms** : *E.coli*, *S.aureus*, *P.aeruginosa*, *E.faecalis*, *S.typhimurium*, *K.pneumoniae*

**Results** :

Bacteria	Inoculums cells/cm <sup>2</sup>	U <sub>0</sub> cells/cm <sup>2</sup>	U <sub>t</sub> cells/cm <sup>2</sup>	A <sub>t</sub> cells/cm <sup>2</sup>	R
<i>E.coli</i>	6.8 x 10 <sup>5</sup> (5.8)	5.3 x 10 <sup>4</sup> (4.7)	2.4 x 10 <sup>4</sup> (4.4)	<0.63 (-0.2)	4.6
<i>S.aureus</i>	3.5 x 10 <sup>5</sup> (5.5)	5.0 x 10 <sup>4</sup> (4.7)	6.4 x 10 <sup>4</sup> (4.8)	<0.63 (-0.2)	5.0
<i>P.aeruginosa</i>	4.1 x 10 <sup>5</sup> (5.6)	5.0 x 10 <sup>4</sup> (4.7)	1.9 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>E.faecalis</i>	3.4 x 10 <sup>5</sup> (5.5)	5.2 x 10 <sup>4</sup> (4.7)	2.1 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>S.typhimurium</i>	8.4 x 10 <sup>5</sup> (5.9)	4.4 x 10 <sup>4</sup> (4.6)	1.9 x 10 <sup>4</sup> (4.3)	<0.63 (-0.2)	4.5
<i>K.pneumoniae</i>	4.5 x 10 <sup>5</sup> (5.7)	1.2 x 10 <sup>4</sup> (4.1)	6.8 x 10 <sup>3</sup> (3.8)	<0.63 (-0.2)	4.0

**Conclusion:** Based on the results obtained, the sample has *passed* the Antimicrobial Efficacy Test by obtaining log value more than 2.0 log reductions in accordance with JIS Z 2801:2010.

**Remark:-**

1. U<sub>0</sub> indicate average value of bacteria immediately after inoculation on untreated test pieces.
2. U<sub>t</sub> indicate average value of bacteria after inoculation on untreated test pieces after 24 hours.
3. A<sub>t</sub> indicate average value of bacteria after inoculation on treated test pieces after 24 hours.
4. R indicate the log value of Antibacterial Activity – "Formula:  $R = (U_t - U_0) - (A_t - U_0) = (U_t - A_t)^2$ ".
5. Values in bracket indicate the log value.



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