

# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04079

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-06

**PAGE** : 1 OF 3

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE SHEET.

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**ITEM** : AIR PURITY

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**TEST CONDUCTED :** AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: VDY3-Y96R-HKPP ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

## e-DOCUMENT SERVICE

The test results contained in this report are limited to results on the sample(s) that is provided by client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products. Results contained in this report are not based on the quality certification of sample by the FITI quality certification program unless specifically requested by the client. Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the FITI. This test report is irrelevant to KS Q ISO/IEC 17025 and KOLAS accreditation.

REPORT NO.: M287-19-04079

PAGE : 2 OF 3

**01. ANTIMICROBIAL ACTIVITY AND EFFICACY ( ISO 22196 : 2011 ) : CFU/cm<sup>2</sup>, VALUE OF ANTIMICROBIAL ACTIVITY : log**

|            |                                  | BLANK             | #1                |
|------------|----------------------------------|-------------------|-------------------|
| BACTERIA-1 | AT BEGINNING                     | $1.7 \times 10^4$ | $1.7 \times 10^4$ |
|            | AFTER 24 h                       | $1.4 \times 10^6$ | < 0.63            |
|            | VALUE OF ANTI-MICROBIAL ACTIVITY | -                 | 6.3               |

NOTE) STANDARD FILM : STOMACHER® 400 POLY-BAG

SAMPLE SIZE : 50 mm x 50 mm

COVER FILM SIZE : 40 mm x 40 mm

INOCULUM SIZE : 0.4 mL

TEST CONDITION : THE SOLUTION ARE FIXED AT (35 ± 1) °C, 90 % R.H. FOR 24 h,  
AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY  
POUR AGAR PLATE METHOD.

ANTIMICROBIAL EFFICACY : THE VALUE OF ANTIMICROBIAL ACTIVITY  
SHALL NOT BE LESS THAN 2.0 log

TEST BACTERIA : *Escherichia coli* ATCC 8739

SEE ATTACHED PHOTOS.

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

**\*\* SAMPLE POTHOTO \*\***

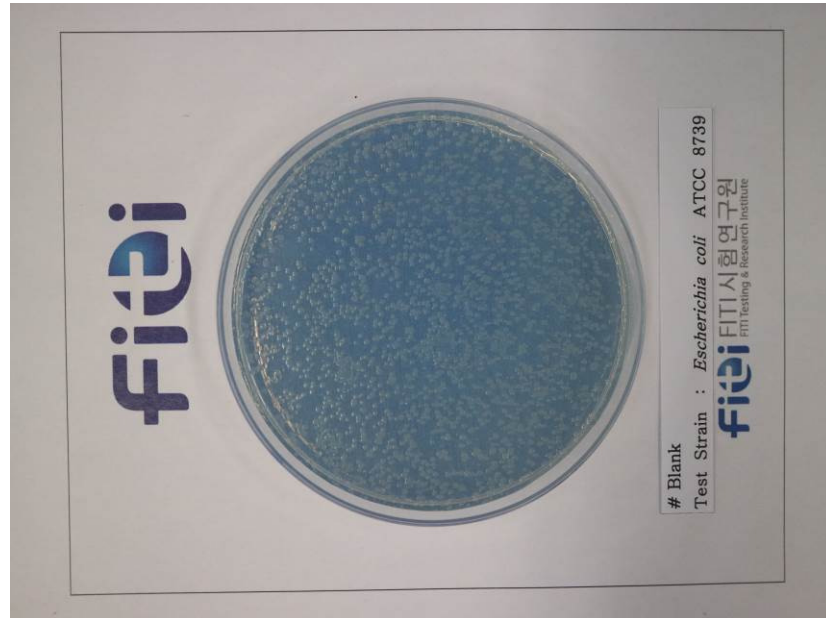


**e-DOCUMENT SERVICE**

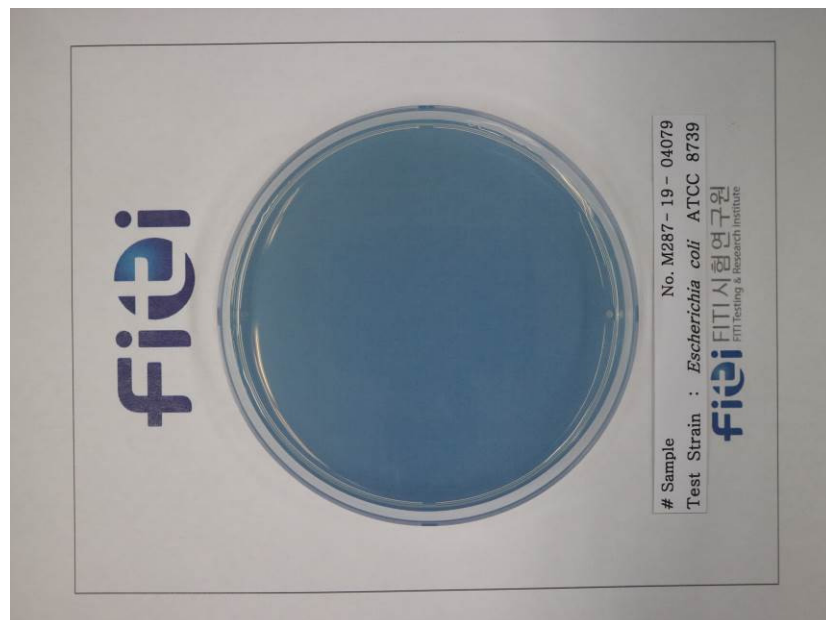
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REPORT NO.: M287-19-04079  
PAGE : 3 OF 3

- ANTIBACTERIAL ACTIVITY OF TEXTILES PHOTO : BLANK -



- ANTIBACTERIAL ACTIVITY OF TEXTILES PHOTO : #1 -



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# TEST REPORT

**APPLICANT :** Johns Media Co., Ltd.**REPORT NO.** : M287-19-04081**SAMPLE RECEIVED DATE** : 2019-10-24**REPORT ISSUED DATE** : 2019-11-06**PAGE** : 1 OF 3**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE SHEET.

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ITEM : AIR PURITY

=====

**TEST CONDUCTED :** AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=====

PREPARED AND CHECKED BY  
FOR FITIHAK JOO LEE  
QUALITY MANAGERAUTHORIZED BY  
FOR FITIJE-GOO JUN  
PRESIDENT**※ Report Verification No.: Q7ZL-BIF5-DWPV ※**

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

## e-DOCUMENT SERVICE

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REPORT NO.: M287-19-04081

PAGE : 2 OF 3

**01. ANTIMICROBIAL ACTIVITY AND EFFICACY ( ISO 22196 : 2011 ) : CFU/cm<sup>2</sup>, VALUE OF ANTIMICROBIAL ACTIVITY : log**

|            |                                  | BLANK             | #1                |
|------------|----------------------------------|-------------------|-------------------|
| BACTERIA-1 | AT BEGINNING                     | $1.7 \times 10^4$ | $1.7 \times 10^4$ |
|            | AFTER 24 h                       | $2.8 \times 10^5$ | < 0.63            |
|            | VALUE OF ANTI-MICROBIAL ACTIVITY | -                 | 5.6               |

NOTE) STANDARD FILM : STOMACHER® 400 POLY-BAG

SAMPLE SIZE : 50 mm x 50 mm

COVER FILM SIZE : 40 mm x 40 mm

INOCULUM SIZE : 0.4 mL

TEST CONDITION : THE SOLUTION ARE FIXED AT (35 ± 1) °C, 90 % R.H. FOR 24 h,  
AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY  
POUR AGAR PLATE METHOD.

ANTIMICROBIAL EFFICACY : THE VALUE OF ANTIMICROBIAL ACTIVITY  
SHALL NOT BE LESS THAN 2.0 log

TEST BACTERIA : *Klebsiella pneumoniae* ATCC 4352

SEE ATTACHED PHOTOS.

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

**\*\* SAMPLE POTH0 \*\***

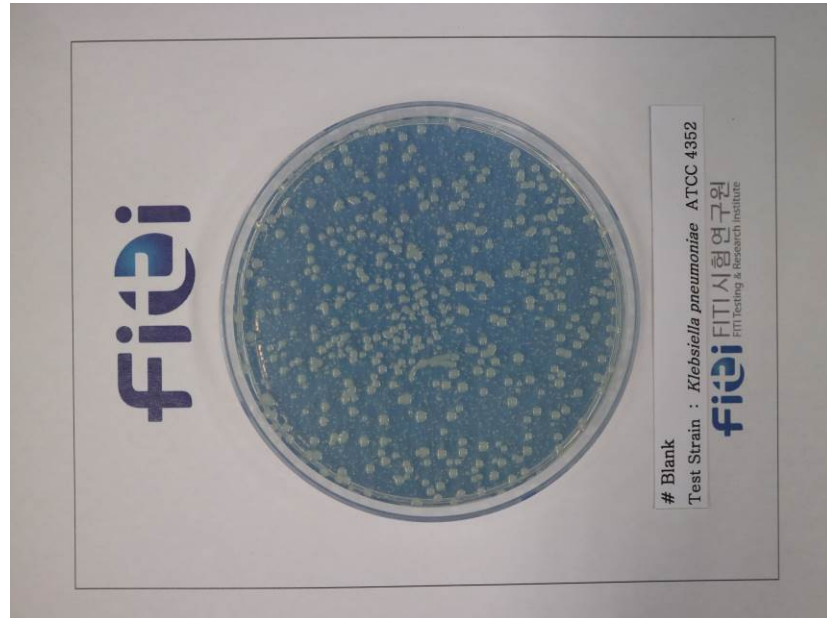


**e-DOCUMENT SERVICE**

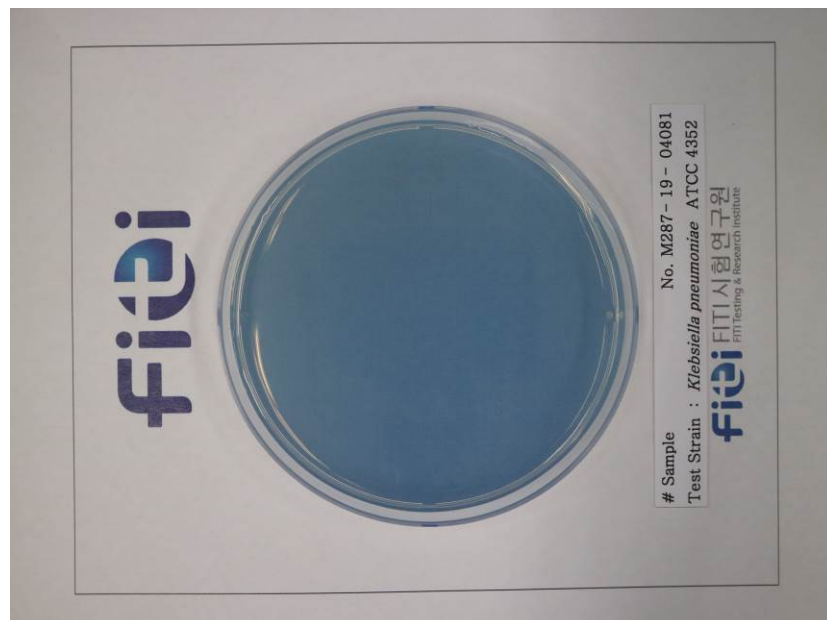
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REPORT NO.: M287-19-04081  
PAGE : 3 OF 3

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# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04082

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-13

**PAGE** : 1 OF 3

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE SHEET.

=====

**ITEM** : AIR PURITY

=====

**TEST CONDUCTED :** AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: TIHD-54TV-DTD9 ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

## e-DOCUMENT SERVICE

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REPORT NO.: M287-19-04082

PAGE : 2 OF 3

**01. ANTIMICROBIAL ACTIVITY AND EFFICACY ( ISO 22196 : 2011 ) : CFU/cm<sup>2</sup>, VALUE OF ANTIMICROBIAL ACTIVITY : log**

|  |                                  | BLANK             | #1                |
|--|----------------------------------|-------------------|-------------------|
|  | AT BEGINNING                     | $1.7 \times 10^4$ | $1.7 \times 10^4$ |
|  | AFTER 24 h                       | $3.2 \times 10^5$ | < 0.63            |
|  | VALUE OF ANTI-MICROBIAL ACTIVITY | -                 | 5.7               |

NOTE) STANDARD FILM : STOMACHER® 400 POLY-BAG

SAMPLE SIZE : 50 mm x 50 mm

COVER FILM SIZE : 40 mm x 40 mm

INOCULUM SIZE : 0.4 mL

TEST CONDITION : THE SOLUTION ARE FIXED AT (35 ± 1) °C, 90 % R.H. FOR 24 h,  
AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY  
POUR AGAR PLATE METHOD.

ANTIMICROBIAL EFFICACY : THE VALUE OF ANTIMICROBIAL ACTIVITY  
SHALL NOT BE LESS THAN 2.0 log

TEST BACTERIA : *Salmonella typhimurium* KCTC 1925

SEE ATTACHED PHOTOS.

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

**\*\* SAMPLE POTH0 \*\***



**e-DOCUMENT SERVICE**

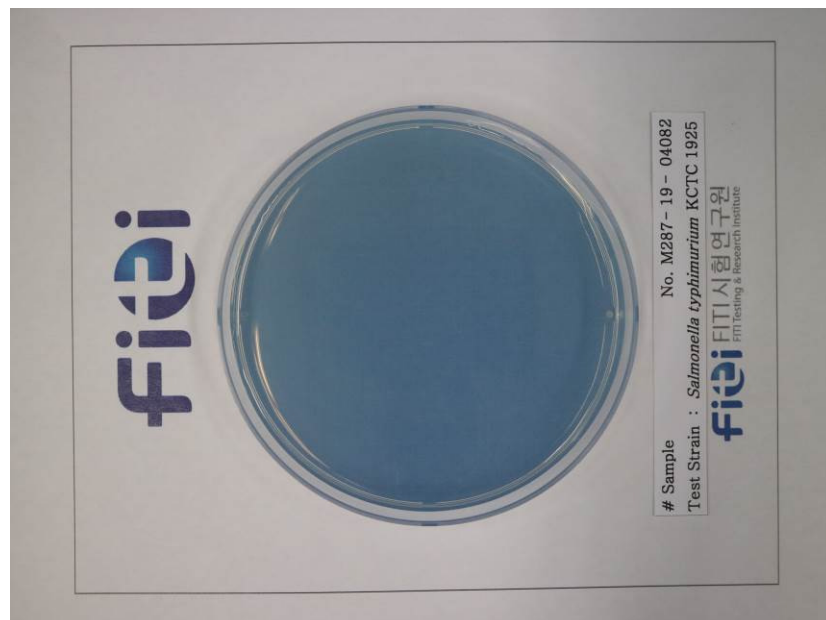
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REPORT NO.: M287-19-04082  
PAGE : 3 OF 3

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- ANTIBACTERIAL ACTIVITY OF TEXTILES PHOTO : #1 -



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# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04080

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-06

**PAGE** : 1 OF 3

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED CUTTING SAID TO BE SHEET.

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**ITEM** : AIR PURITY

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**TEST CONDUCTED :** AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: KIAC-UIYK-HMIL ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

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REPORT NO.: M287-19-04080

PAGE : 2 OF 3

**01. ANTIMICROBIAL ACTIVITY AND EFFICACY ( ISO 22196 : 2011 ) : CFU/cm<sup>2</sup>, VALUE OF ANTIMICROBIAL ACTIVITY : log**

|            |                                  | BLANK             | #1                |
|------------|----------------------------------|-------------------|-------------------|
| BACTERIA-1 | AT BEGINNING                     | $1.7 \times 10^4$ | $1.7 \times 10^4$ |
|            | AFTER 24 h                       | $2.5 \times 10^4$ | < 0.63            |
|            | VALUE OF ANTI-MICROBIAL ACTIVITY | -                 | 4.5               |

NOTE) STANDARD FILM : STOMACHER® 400 POLY-BAG

SAMPLE SIZE : 50 mm x 50 mm

COVER FILM SIZE : 40 mm x 40 mm

INOCULUM SIZE : 0.4 mL

TEST CONDITION : THE SOLUTION ARE FIXED AT (35 ± 1) °C, 90 % R.H. FOR 24 h,  
AND DETERMINE BACTERIA CELL GROWTH INHIBITION RATE BY  
POUR AGAR PLATE METHOD.

ANTIMICROBIAL EFFICACY : THE VALUE OF ANTIMICROBIAL ACTIVITY  
SHALL NOT BE LESS THAN 2.0 log

TEST BACTERIA : *Staphylococcus aureus* ATCC 6538P

SEE ATTACHED PHOTOS.

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

**\*\* SAMPLE POTH0 \*\***

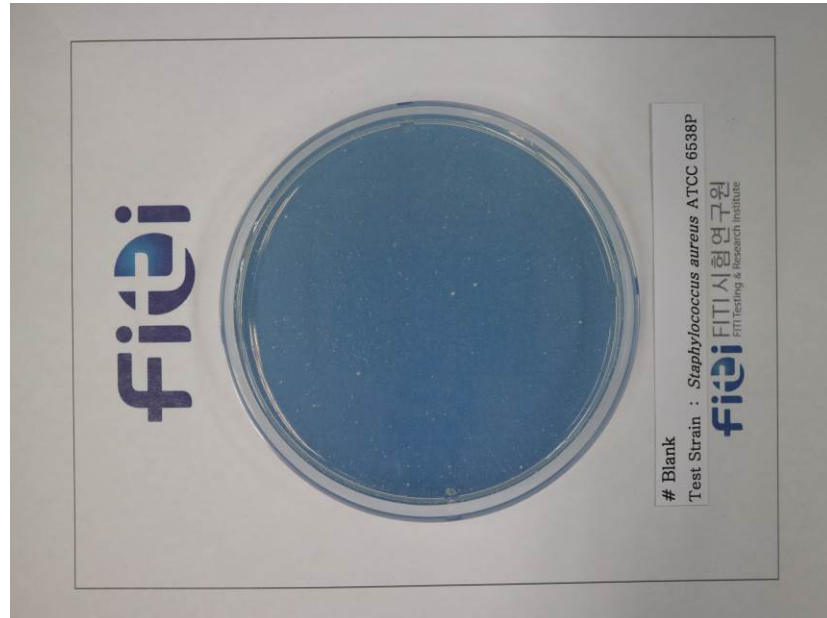


**e-DOCUMENT SERVICE**

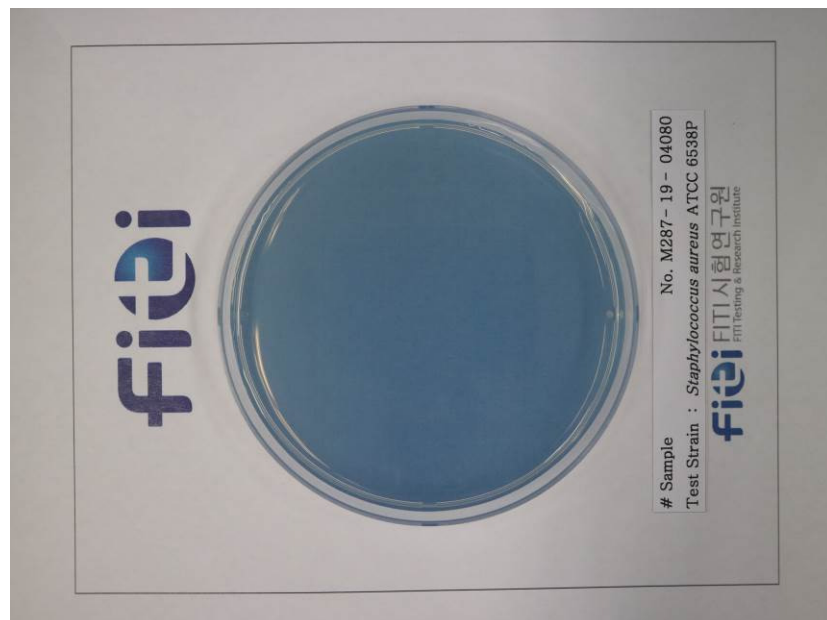
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REPORT NO.: M287-19-04080  
PAGE : 3 OF 3

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- ANTIBACTERIAL ACTIVITY OF TEXTILES PHOTO : #1 -



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# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04087

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-04

**PAGE** : 1 OF 2

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED SAMPLE SAID TO BE SHEET.

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**ITEM** : AIR PURITY

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=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: A8W3-H2ZC-ZYVH ※

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REPORT NO.: M287-19-04087

PAGE : 2 OF 2

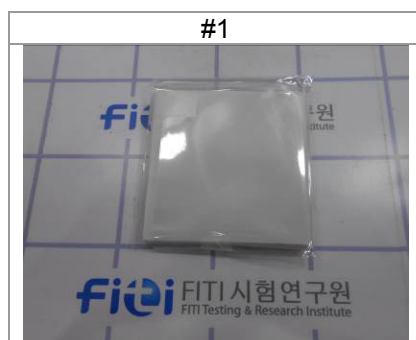
**01. DETERMINATION OF DEODORANT PROPERTY - DETECTOR TUBE METHOD ( FITI TEST GUIDELINE  
FTM-5-2 : 2004 ) : %**

|                             |      |
|-----------------------------|------|
|                             | #1   |
| EFFICIENCY OF DEODORIZATION |      |
| - ACETIC ACID               | 96.0 |

- NOTE)
- DEMENSION OF SPECIMEN : 10 cm ×10 cm
  - GAS BAG SIZE : 5 L
  - AMOUNT OF GAS PACKED : 3 L
  - ELAPSED TIME : AFTER 2 HOURS
  - INITIAL CONCENTRATION : ACETIC ACID (50 ppm)
  - DEODORIZATION EFFICIENCY(%) =  $((C_b - C_s)/C_b) \times 100$ 
    - $C_b$  : BLANK, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS
    - $C_s$  : SAMPLE, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS

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

**\*\* SAMPLE PHOTO \*\***



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# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04086

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-04

**PAGE** : 1 OF 2

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED SAMPLE SAID TO BE SHEET.

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**ITEM** : AIR PURITY

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=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: 8BVS-YREY-APJX ※

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REPORT NO.: M287-19-04086

PAGE : 2 OF 2

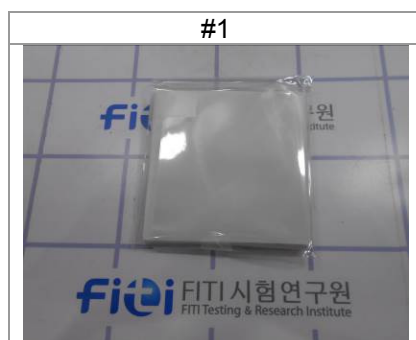
**01. DETERMINATION OF DEODORANT PROPERTY - DETECTOR TUBE METHOD ( FITI TEST GUIDELINE FTM-5-2 : 2004 ) : %**

|                             |        |
|-----------------------------|--------|
|                             | #1     |
| EFFICIENCY OF DEODORIZATION |        |
| - AMMONIA                   | > 99.8 |

- NOTE)
- DEMENSION OF SPECIMEN : 10 cm ×10 cm
  - GAS BAG SIZE : 5 L
  - AMOUNT OF GAS PACKED : 3 L
  - ELAPSED TIME : AFTER 2 HOURS
  - INITIAL CONCENTRATION : AMMONIA (100 ppm)
  - DEODORIZATION EFFICIENCY(%) =  $((C_b - C_s)/C_b) \times 100$ 
    - C<sub>b</sub> : BLANK, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS
    - C<sub>s</sub> : SAMPLE, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS

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

**\*\* SAMPLE PHOTO \*\***



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# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04084

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-04

**PAGE** : 1 OF 2

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED SAMPLE SAID TO BE SHEET.

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**ITEM** : AIR PURITY

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PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: NTL3-ID38-3PQH ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

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REPORT NO.: M287-19-04084

PAGE : 2 OF 2

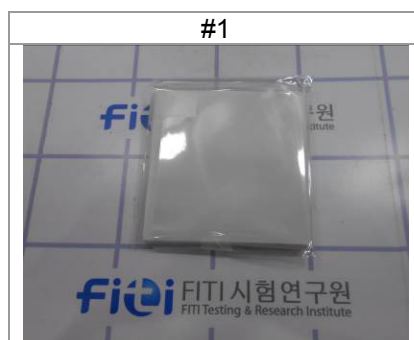
**01. DETERMINATION OF DEODORANT PROPERTY - DETECTOR TUBE METHOD ( FITI TEST GUIDELINE FTM-5-2 : 2004 ) : %**

|                             |        |
|-----------------------------|--------|
|                             | #1     |
| EFFICIENCY OF DEODORIZATION |        |
| - METHYLMERCAPTHANE         | > 99.3 |

- NOTE)
- DEMENSION OF SPECIMEN : 10 cm ×10 cm
  - GAS BAG SIZE : 5 L
  - AMOUNT OF GAS PACKED : 3 L
  - ELAPSED TIME : AFTER 2 HOURS
  - INITIAL CONCENTRATION : METHYLMERCAPTHANE (8 ppm)
  - DEODORIZATION EFFICIENCY(%) =  $((C_b - C_s)/C_b) \times 100$ 
    - C<sub>b</sub> : BLANK, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS
    - C<sub>s</sub> : SAMPLE, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS

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

**\*\* SAMPLE PHOTO \*\***



**e-DOCUMENT SERVICE**

The test results contained in this report are limited to results on the sample(s) that is provided by client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products. Results contained in this report are not based on the quality certification of sample by the FITI quality certification program unless specifically requested by the client. Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the FITI. This test report is irrelevant to KS Q ISO/IEC 17025 and KOLAS accreditation.

# TEST REPORT



**APPLICANT :** Johns Media Co., Ltd.

**REPORT NO.** : M287-19-04085

**SAMPLE RECEIVED DATE** : 2019-10-24

**REPORT ISSUED DATE** : 2019-11-04

**PAGE** : 1 OF 2

**DESCRIPTION :** ONE(1) PIECE OF SUBMITTED SAMPLE SAID TO BE SHEET.

=====

**ITEM** : AIR PURITY

=====

**TEST CONDUCTED :** AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=====

PREPARED AND CHECKED BY  
FOR FITI



HAK JOO LEE  
QUALITY MANAGER

AUTHORIZED BY  
FOR FITI



JE-GOO JUN  
PRESIDENT

※ Report Verification No.: DLBL-HM4B-IPFA ※

(You can see the authenticity of your test report through the above "Report Verification No." at FITI homepage.)

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REPORT NO.: M287-19-04085

PAGE : 2 OF 2

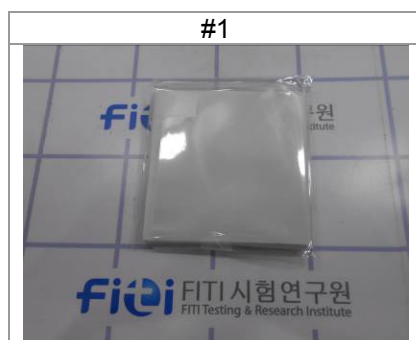
**01. DETERMINATION OF DEODORANT PROPERTY - DETECTOR TUBE METHOD ( FITI TEST GUIDELINE  
FTM-5-2 : 2004 ) : %**

|                             |        |
|-----------------------------|--------|
|                             | #1     |
| EFFICIENCY OF DEODORIZATION |        |
| - TRIMETHYLAMINE            | > 99.6 |

- NOTE)
- DEMENSION OF SPECIMEN : 10 cm ×10 cm
  - GAS BAG SIZE : 5 L
  - AMOUNT OF GAS PACKED : 3 L
  - ELAPSED TIME : AFTER 2 HOURS
  - INITIAL CONCENTRATION : TRIMETHYLAMINE (28 ppm)
  - DEODORIZATION EFFICIENCY(%) =  $((C_b - C_s)/C_b) \times 100$ 
    - C<sub>b</sub> : BLANK, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS
    - C<sub>s</sub> : SAMPLE, CONCENTRATION OF THE TEST GAS REMAINED IN THE GAS BAG AFTER 2 HOURS

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

**\*\* SAMPLE PHOTO \*\***



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