ODOR + BACTERIA

TEST REPORT

KOTITI No. | 82211002135086(A1)

To | 내외코리아주식회사

Date In | OCT 05, 2021 Date Out | OCT 22, 2021 Amend Date | OCT 25, 2021

Amend Comment	The Item Name is amended at the applicant's request.
Title	Test Report
Item	SAMPLE
Item Name	NWK A-FV
Buyer	N/S
Brand Name	N/S
Style Number	N/S
PO Number	N/S
Related(FO, FP) Report No	N/S
Color	N/S
Submitted Fiber Composition	N/S
Recommended Fiber Composition	N/A
Submitted Care Instruction	N/S
Recommended Care Instruction	N/A
Test Result	For further details, please refer to the following page(s).

Ref.) KOTITI No.(A_)
A : Test report is amended.

Affirmation	Prepared by Name : Ho Kim	Technical Manager Name : Jae Yoon Han

KOTITI Testing & Research Institute

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1. 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.
2. 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 KOTITI Testing & Research Institute.
3. The test result in this report is not related to accreditation of KS Q ISO/IEC 17025 and KOLAS.
4. You can verify the authenticity by the QR code at the bottom right side of the issued report, or access http://cs.kotiti-global.com and enter the test report number

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Deodorization Efficiency, mg/kg (JTETC Method(JAPAN))

Test Conducted	Test Results	
(A)	0 Hour	After 2 Hour(s)
Submitted State(Concentration of ammonia gas(NH_3), mg/kg)		
Blank	100.0	98.7
Sample	100.0	0
Reduction(%)	-	99.9
Submitted State(Contentration of acetic acid gas(CH_3COOH), mg/kg)		
Blank	30.0	29.3
Sample	30.0	0
Reduction(%)	-	99.9

Test method Put specimen 10 cm × 10 cm into 5 L of tetrabag and inject 3 L of test gas.Then, measure the gas concentration using detector tube after 2 Hour(s).

Detector tube NH_3 - 3La (GASTEC)

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Antibacterial Test (AATCC TM 100:2019)

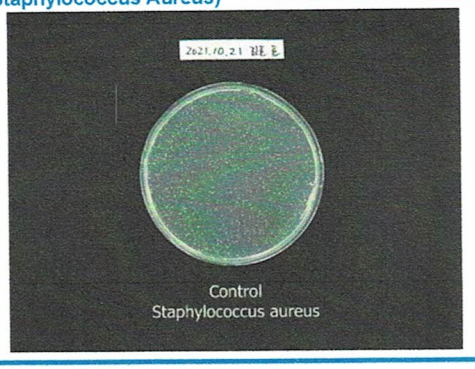
Test Conducted	Test Results		
(A)	Staphylococcus aureus	Klebsiella pneumoniae	Escherichia coli
Original			
A	< 100	< 100	< 100
C	2.0×10^7	2.3×10^8	1.8×10^8
Reduction(%)	99.9	99.9	99.9
B	2.9×10^5	2.2×10^5	1.9×10^3
Bacteriostatic Reduction Value(%)	99.9	99.9	99.9

Note) * Bacteriostatic reduction rate(%) : (C-A) X 100/C, Bactericidal reduction rate(%) : (B-A) X 100/B
A: The number of bacteria recovered from the inoculated treated test specimen swatches in the jar incubated over the desired contact period B: The number of bacteria recovered from the inoculated treated test specimen swatches in the jar immediately after inoculation: (at "0" contact time)
C : The number of bacteria recovered from the inoculated untreated test specimen swatches in the jar incubated over the desired contact period

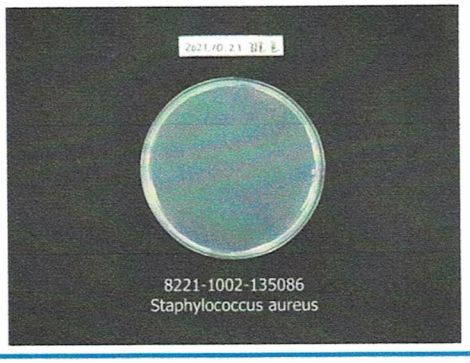
Test Organism	Staphylococcus aureus(ATCC 6538) Klebsiella pneumoniae(ATCC 4352) Escherichia coli(ATCC 25922)
Viability control(Log)	1.9 / 3.1 / 3.0
Sample size	4.8 cm diameter
Neutralizer	Dey Engley broth
Dilution medium	0.85% Saline solution
Media used	Nutrient agar
The number of swatches usde per jar	2
Reduction (%)	((C - A) x 100) / C
A	The number of bacteria recovered from the inoculated treated test specimen swatches in the jar incubated over the desired contact period.
C	The number of bacteria recovered from the inoculated treated test specimen swatches in the jar immediately after inoculation: at "0" contact time.
Test specimens sterilization	not performed (customer request)

(A)

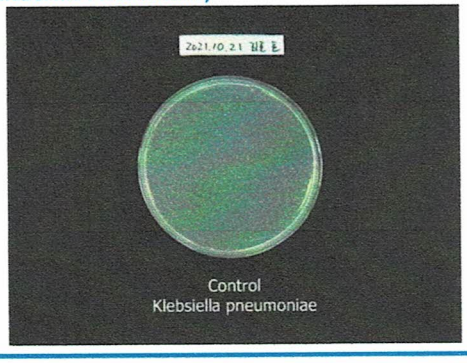
(A) Contrast Bacteria (Staphylococcus Aureus)



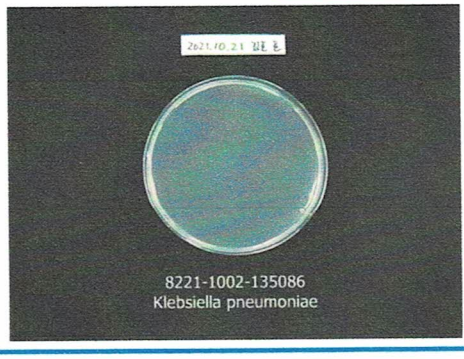
(A) Staphylococcus Aureus



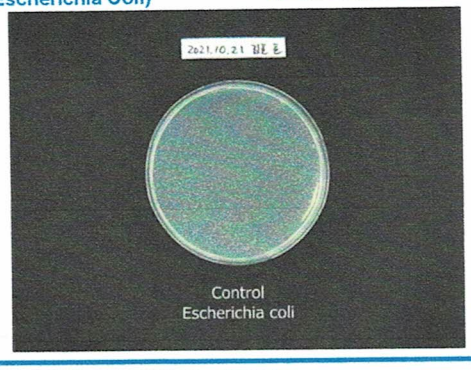
(A) Contrast Bacteria (Klebsiella Pneumoniae)



(A) Klebsiella Pneumoniae



(A) Contrast Bacteria (Escherichia Coli)



(A) Escherichia Coli



- End of Report -

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Photo of the submitted sample(s)



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