

TEST REPORT



KOTITI No. | 82201045102118

To |

Date In | JUN 08, 2020

Date Out | JUN 23, 2020

Title	Test Report
Item	ONE (1) KNITTED FABRIC
Item Name	FASHION MASK
Buyer	N/S
Brand Name	N/S
Style Number	N/S
PO Number	N/S
Related(FO, FP) Report No	N/S
Color	(A)GR
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).

Affirmation	Prepared by Name : Ho Kim		Technical Manager Name : Chae Hong Kim	
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KOTITI Testing & Research Institute



Contact Information for technical questions and general inquiries.

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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



Arylamines, mg/kg
(KS K 0147:2015/KS K 0739:2017)

Test Conducted	Test Results	Requirements
	(A)	
4-aminobiphenyl (92-67-1)	ND	
benzidine (92-87-5)	ND	
4-chloro-o-toluidine (95-69-2)	ND	
2-naphthylamine (91-59-8)	ND	
o-aminoazotoluene (97-56-3)	ND	
2-amino-4-nitrotoluene (99-55-8)	ND	
4-chloroaniline (106-47-8)	ND	
2,4-diaminoanisole (615-05-4)	ND	
4,4'-diamino-diphenylmethane (101-77-9)	ND	
3,3'-dichlorobenzidine (91-94-1)	ND	
3,3'-dimethoxybenzidine (119-90-4)	ND	
3,3'-dimethylbenzidine (119-93-7)	ND	
4,4'-methylenedi-o-toluidine (838-88-0)	ND	
p-cresidine (120-71-8)	ND	
4,4'-methylene-bis-(2-chloroaniline) (101-14-4)	ND	
4,4'-oxydianiline (101-80-4)	ND	
4,4'-thiodianiline (139-65-1)	ND	
o-toluidine (95-53-4)	ND	
2,4-toluylenediamine (95-80-7)	ND	
2,4,5-trimethylaniline (137-17-7)	ND	
o-anisidine (90-04-0)	ND	
4-aminoazobenzene (60-09-3)	ND	
2,4-xylidine (95-68-1)	ND	
2,6-xylidine (87-62-7)	ND	

ND (Not Detected) : Less than 5 mg/kg

Note) Baby's/ Children's textile products, Underwear, Middlewear, Outerwear & Bedding : less than(below) 30 mg/kg
Azo dyes, which is capable of forming 4-aminoazobenzene, produce aniline and 1,4-phenylenediamine under the conditions of testing process. Due to the limit of detection, only aniline can be detected. The presence of these dyes must be tested in accordance with KS K 0739 as needed.

pH
(KS K ISO 3071:2005)

Test Conducted	Test Results	Requirements
	(A)	
	6.6	

Note) Baby's/ Children's textile products/ Underwear & Middlewear: 4.0 ~ 7.5, Outerwear & Bedding : 4.0 ~ 9.0

Formaldehyde, mg/kg
(KS K ISO 14184-1:1998, water extraction method)

Test Conducted	Test Results	Requirements
	(A)	
	ND	

ND (Not Detected) : Less than 20 mg/kg

Note) Baby's textile products: Less than(below) 20 mg/kg, Children's textile products, Underwear & Middlewear: less than(below) 75 mg/kg, Outerwear & Bedding : less than(below) 300 mg/kg

Antibacterial Test, %
(KS K 0693:2016)

Test Conducted	Test Results	
	(A)	
	Staphylococcus aureus	Klebsiella pneumoniae
Original		
Ma	1.1 X 10 ⁵	1.3 X 10 ⁵
Mb	4.2 X 10 ⁶	1.5 X 10 ⁷
Mc	< 20	< 20
Bacteriostatic Activity Value	5.3	5.9
Bacteriostatic Reduction Value(%)	99.9	99.9

Test Organism Staphylococcus aureus(ATCC 6538)
Klebsiella pneumoniae(ATCC 4352)

Washing

Used non-ionic surfactant TWEEN 80 (0.05%)

Growth rate Mb / Ma ≥ 31.6

Staphylococcus aureus : 38.2

Klebsiella pneumoniae : 115.4

Bacteriostatic Activity Value (S) log Mb - log Mc

Bacteriostatic Reduction Value (%) (Mb - Mc) x 100/Mb

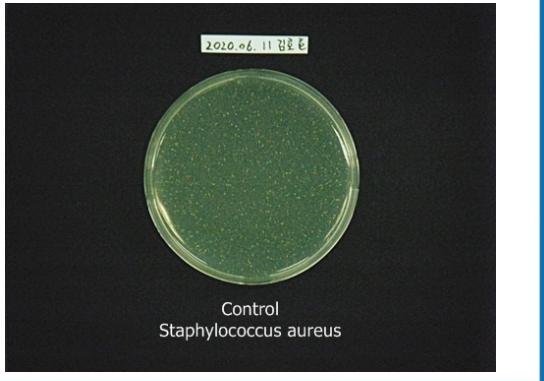
Ma CFU of 0 contact time in control

Mb CFU of 18 hours later in control

Mc CFU of 18 hours later in sample

(A)

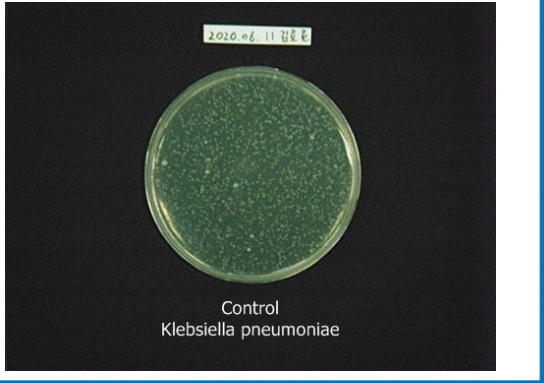
(A) Contrast Bacteria (Staphylococcus Aureus)



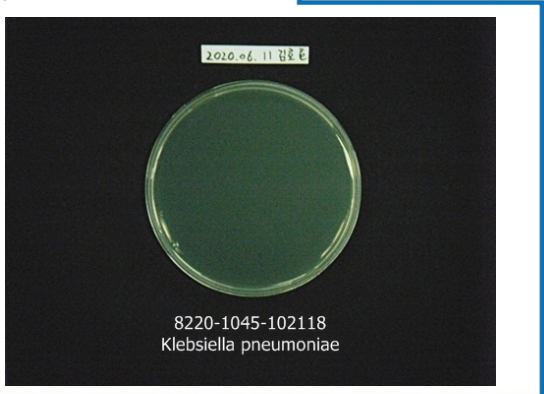
(A) Staphylococcus Aureus



(A) Contrast Bacteria (Klebsiella Pneumoniae)



(A) Klebsiella Pneumoniae



- End of Report -

■ Swatch of the submitted sample(s)

(A)
