

Test Report No. BK20024678354 ( 24419002879-1 )

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Applicant:

March 2, 2020

**BOKEN QUALITY EVALUATION INSTITUTE** 

**BOKEN** 

Osaka Functional Textile Testing Center

1-6-24 Chikko, Minato-ku, Osaka-shi, Osaka 552-0021, Japan

TEL.+81-6-6577-0200/FAX.+81-6-6577-0210

Number of Item: 2

Test Item:

The test of the antiviral efficacy

Test results to submitted sample are as follows.

Reception Date: February 13, 2020

NAVY

Item Name: Knit fabric:Pique CM40/2

Test Method: ISO18184: 2019 Textiles - Determination of antiviral activity of textile products

Infective titre measurement: Plaque assay

Washing Method: "Washing method of textile products with SEK mark" specified by Japan Textile

Evaluation Technology Council - Standard washing method

Test virus:

Influenza A virus (H3N2): ATCC VR-1679

Test Result:

Test sample		The common logarithm average of infectivity titer value		The antiviral activity value lg(Va) - lg(Vc)	
Standard cloth	Immediately after inoculation	lg(Va)	6.38		
	After 2h	lg(Vb)	5.98	-	
Knit fabric:Pique CM40/2 NAVY (original)		lg(Vc)	2.30	4.1	
" (after fifteen wash)		lg(Vc)	5.65	0.7	

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#### Test Result:

Verification of this test					
	Test item	Criterion value	Test sample	Test result	Verification
a	The virus infective titer of inoculated concentration for the test (PFU/mL)	≥10 <sup>7</sup>		$1.4 \times 10^{7}$	Pass
b	Verification of cytotoxic effect	No damege	Knit fabric:Pique CM40/2 NAVY (original)	No damege	Pass
			" (after fifteen wash)	No damege	Pass
	Verification of cell sensitivity to virus and inactivation of antiviral activity	≤0.5	Knit fabric:Pique CM40/2 NAVY (original)	0.0	Pass
			" (after fifteen wash)	0.0	Pass
С	Logarithm reduction value of infective titer of control specimen	≤1.0		0.4	Pass

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Test results to submitted sample are as follows.

NAVY

Number of Item: 2

Test Item: The test of the antiviral efficacy

Test Method: ISO18184: 2019 Textiles - Determination of antiviral activity of textile products

Infective titre measurement : Plaque assay

Washing Method: "Washing method of textile products with SEK mark" specified by Japan Textile

Evaluation Technology Council - Standard washing method

Test virus: Influenza A virus (H1N1): ATCC VR-1469

Test Result:

Test sample		The common logarithm average of infectivity titer value		The antiviral activity value lg(Va) – lg(Vc)	
Standard cloth	Immediately after inoculation	lg(Va)	6.38		
Standard Cloth	After 2h	lg(Vb)	5.66		
Knit fabric:Pique CM40/2 NAVY (original)		lg(Vc)	2.30	4.1	
" (after fifteen wash)		lg(Vc)	5.20	1.2	

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Ь	Verification of cytotoxic effect	No damege	Knit fabric:Pique CM40/2 NAVY (original)	No damege	Pass
			" (after fifteen wash)	No damege	Pass
	Verification of cell sensitivity to virus and inactivation of antiviral activity	≤0.5	Knit fabric:Pique CM40/2 NAVY (original)	0.0	Pass
			" (after fifteen wash)	0.0	Pass
С	Logarithm reduction value of infective titer of control specimen	≤1.0		0.7	Pass

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