

**ORIGINAL**

# Quality Test Report

Test Report No. BK20024678354  
( 24419002879-1 ) (Page 1 of 4)

Applicant : \_\_\_\_\_

March 2, 2020

Test results to submitted sample are as follows.

Reception Date : February 13, 2020

Item Name : Knit fabric:Pique CM40/2  
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 (H3N2) : ATCC VR-1679

Test Result :

BOKEN QUALITY EVALUATION INSTITUTE

**BOKEN**Osaka Functional Textile  
Testing Center1-6-24 Chikko, Minato-ku, Osaka-shi,  
Osaka 552-0021, Japan

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

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

Notice - This test result is applied to the submitted sample, not to the lot.  
Unauthorized reproduction, in whole or in part, is strictly prohibited.

\*BK20024678354\*

# Quality Test Report

Test Report No. BK20024678354  
( 24419002879-1 ) (Page 2 of 4)

Test Result :

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

BOKEN QUALITY EVALUATION INSTITUTE  
Osaka Functional Textile Testing Center

Supervised by *Yoshihiko Nuremaki*

Notice - This test result is applied to the submitted sample, not to the lot.  
Unauthorized reproduction, in whole or in part, is strictly prohibited.



\*BK20024678354\*

# Quality Test Report

**ORIGINAL**

Test Report No. BK20024678354  
( 24419002879-1 ) (Page 3 of 4)

Applicant: UNITEDTEXTILEMILLS CO.,LTD

March 2, 2020

Test results to submitted sample are as follows.

Reception Date : February 13, 2020

Item Name : Knit fabric:Pique CM40/2  
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 :

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

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)	5.66	—————
Knit fabric:Pique CM40/2 NAVY (original)		lg(Vc)	2.30	4.1
" (after fifteen wash)		lg(Vc)	5.20	1.2

Notice - This test result is applied to the submitted sample, not to the lot.  
Unauthorized reproduction, in whole or in part, is strictly prohibited.



\*BK20024678354\*

# Quality Test Report

Test Report No. BK20024678354  
( 24419002879-1 ) (Page 4 of 4)

Test Result :

Verification of this test		Test sample	Test result	Verification
Test item	Criterion value			
a	The virus infective titer of inoculated concentration for the test (PFU/mL)	—————	$1.4 \times 10^7$	Pass
b	Verification of cytotoxic effect	Knit fabric:Pique CM40/2 NAVY (original)	No damage	Pass
		" (after fifteen wash)	No damage	Pass
	Verification of cell sensitivity to virus and inactivation of antiviral activity	Knit fabric:Pique CM40/2 NAVY (original)	0.0	Pass
		" (after fifteen wash)	0.0	Pass
c	Logarithm reduction value of infective titer of control specimen	—————	0.7	Pass

BOKEN QUALITY EVALUATION INSTITUTE  
Osaka Functional Textile Testing Center

Supervised by *Yoshihiko Muromaki*

Notice - This test result is applied to the submitted sample, not to the lot.  
Unauthorized reproduction, in whole or in part, is strictly prohibited.



\*BK20024678354\*