

Quality Test Report

ORIGINAL

Test Report No. 20220003608-1 (Page 1 of 4)

Applicant: Natula. Co., Ltd.

June 29, 2020

BOKEN QUALITY EVALUATION INSTITUTE

Test results to submitted sample are as follows.

BOKEN

Osaka Functional Textile
Testing Center

Reception Date : April 22, 2020

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

Item Name : BK-01

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

Number of Item : 1

Test Item : The test of the antiviral efficacy (抗ウイルス効果測定)

Test Method : ISO 18184 : 2019 Textiles - Determination of antiviral activity of textile products

(紡織品抗ウイルス活性の測定)

Infective titre measurement : Plaque assay

Test virus : Influenza A virus (H3N2) : ATCC VR-1679 (甲型流感ウイルス (H3N2))

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	$\lg(Va)$	6.53	—————
	After 2h	$\lg(Vb)$	5.90	—————
BK-01		$\lg(Vc)$	2.30	4.2

Notice - This test result is applied to the submitted sample, not to the lot.
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Test Result :

Verification of this test		Criterion value	Test sample	Test result	Verification
Test item					
a	The virus infective titer of inoculated concentration for the test (PFU/mL) (供試品のウイルス感染滴度濃度)	$>10^7$	—————	1.3×10^7	Pass
b	Verification of cytotoxic effect (驗證細胞毒性作用)	No damage	BK-01	No damage	Pass
	Verification of cell sensitivity to virus and inactivation of antiviral activity (驗證細胞對病毒的敏感性和抗病毒活性的失活)	≤ 0.5	BK-01	0.1	Pass
c	Logarithm reduction value of infective titer of control specimen (對照感染滴度的對數減少值)	≤ 1.0	—————	0.6	Pass

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Test Report No. 20220003608-1 (Page 3 of 4)

Applicant: Natula. Co., Ltd.

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Test results to submitted sample are as follows.

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Osaka Functional Textile
Testing Center

Reception Date : April 22, 2020

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

Item Name : BK-01

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

Number of Item : 1

Test Item : The test of the antiviral efficacy (抗ウイルス効果測定)

Test Method : ISO 18184 : 2019 Textiles - Determination of antiviral activity of textile products

Infective titre measurement : Plaque assay

(繊維品抗ウイルス活性の測定)

Test virus : Feline calicivirus; ATCC VR-782 (猫杯状ウイルス)

Test Result :

Test sample		The common logarithm average of infectivity titer value		The antiviral activity value $\lg(V_a) - \lg(V_c)$
Standard cloth	Immediately after inoculation	$\lg(V_a)$	6.58	—————
	After 2h	$\lg(V_b)$	5.93	—————
BK-01		$\lg(V_c)$	2.30	4.3

*Wash-out solution:SCDLP medium added with 10% serum

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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) (供試品のウイルス感染滴度濃度)	—————	2.3×10^7	Pass
b	Verification of cytotoxic effect (驗證細胞毒性作用)	BK-01	No damage	Pass
	Verification of cell sensitivity to virus and inactivation of antiviral activity (驗證細胞對病毒的敏感性和抗病毒活性的失活)	BK-01	0.1	Pass
c	Logarithm reduction value of infective titer of control specimen (對照感染滴度的對數減少值)	—————	0.7	Pass

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