

Test report No.: TH-17-010009-5Date: **June 21, 2017****TEST REPORT**
(Continued from No.1/3)**3. Test results:**

3.1 Control test

3.1.1 Verification of cytotoxic effect

3.1.1.1 MDCK cells (Influenza A virus)

Sample No.		Confirmation of the cytotoxicity of the washout solution (Test validity*2)
1	Original	No cytotoxicity (Valid)
	After 10-times washing	No cytotoxicity (Valid)
Control fabric		No cytotoxicity (Valid)

*2 Criteria: No cytotoxicity

3.1.2 Spike and recovery test

3.1.2.1 MDCK cells (Influenza A virus)

Sample No.		Recovered amount of the viral titer from washout solution, log (PFU/mL)	Difference from the control fabric (Test validity*3)
1	Original	2.90	-0.1 (Valid)
	After 10-times washing	2.76	0.1(Valid)
Control fabric		2.82	

*3 Criteria: Less than or equal to 0.5.

3.1.3 Antiviral test

3.1.3.1 Influenza A virus

Sample No.		log (Vc): Viral titer of after 2 hrs, log (PFU/Specimen)	Mv: Antiviral activity value
1	Original	6.36	0.5
	After 10-times washing	<2.30	>4.6
Control fabric	log (Va): Viral titer of immediately after inoculation, log (PFU/Specimen)		6.88
	log (Vb): Viral titer of after 2 hrs, log (PFU/Specimen)		6.35
	Reduction value (Test validity*4)		0.5 (Valid)
	Concentration of the test inoculum (PFU/mL)		4.4E+07

*4 Criteria: Less than or equal to 1.0

Kaken Test Center General Incorporated Foundation
Osaka Laboratories
Biological LaboratoryInspector: 中曾根 亨明
T. Nakasone

Period.

KAKEN

Kaken Test Center GENERAL INCORPORATED FOUNDATION

2-5-19, Edobori, Nishi-ku, Osaka,550-0002/ Japan
Tel: +81-(0)6-6441-0399, Fax: +81-(0)6-6441-6803

No.1/2

Test report No.: TH-17-010009-5


Date: June 21, 2017

TEST REPORT

Requested : hap co., ltd
Test items : Antiviral activity
Received : June 1, 2017

This is to report that the results of laboratory test applied on the sample are as follows:

1. Test samples:

Sample No.	Sample name and specifications	Sample swatches
1	HAP-TM170315 c/# WHITE	
Control fabric	100% Cotton, Plain weave, obtained from the JTETC*1.	Omitted

*1 Japan Textile Evaluation Technology Council

2. Test conditions:

Test method	JIS L1922: 2016, Modified (ISO 18184: 2014, Modified)
Quantification method of viral titer	Plaque assay
Test virus [host cell]	Influenza A virus(H3N2) ATCC VR-1679 [MDCK (NBL2) ATCC CCL-34]
Washing method	Washing method of the SEK mark textile products established by the JTETC.

(To be continued on No.2/2)

Kaken Test Center
GENERAL INCORPORATED FOUNDATION
Lab Address: 2-5-19, Edobori, Nishi-ku, Osaka,
550-0002/ Japan
Tel: +81-(0)6-6441-0399
Fax: +81-(0)6-6441-6803

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