

Test Report



No: 250195449

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Issue Date: 2025-07-22

Applicant: Aimer Co., Ltd.

Address: Building 218 and 219, Zone 2, Lize Zhongyuan, Wangjing Development Zone,
Chaoyang District, Beijing

Information confirmed by applicant:

Polypropylene Single Cloth 71K-Telona

Quantity: 1 piece

Trademark: 71K

Batch Number/Style Number: KXM092703

Fabric Code: KXM092703

Color: White

Fiber Composition: 71.8%Viscos 28.1%PP (71K)

Size Specification: 50D/48 (71K) + 32S Bamboo Fiber

Basis of judgement:

Date Received/Date Test Started: 2025-07-07

Conclusion:

Antiviral activity[After Washing]

Note: "M"-Meet the standard's requirement "F"-Fail to meet the standard's requirement
"---"-No comment

Remark:

All the tested items are tested under the standard condition (except for indication).
This report is the english translation version of the report 250083696.

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The experiment was carried out at No.1, Zhujiang Road, Panyu District, Guangzhou, Guangdong, P.R.China.

Approved By:

Nan Ma Engineer

Nan Ma



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Antiviral activity[After Washing]

Test method: ISO 18184:2019

1. Instruments and equipment

Test environment: Ten thousand clean room

Instrument and serial number: Centrifuge C3-F242, Ultra-clean table C3-1433, Inverted microscope C3-1901,

Biological safety cabinet, Pressure steam sterilization pot C3-2450, Carbon dioxide incubator C3-1963, etc.

2. Cell line

Escherichia coli ATCC 33694 the fifth generation

HPV-52(ATCC VRMC-29)

3. Main reagents

nutrient broth, bottom agar, top agar, 0.1% sterile peptone water, neutral broth

4. Test grouping and preparation

The sample group		Sampling	Sterilization of samples
Blank control	Blank control (fabric or polyethylene film)	0.40g	121℃, 15min in the autoclave
The sample group	Test sample		

5. Preparation of virus eluent of sample

Virus dose	Virus exposure conditions	Covering film	Elution solvent	Elution ratio
0.2mL	25℃, 24h	/	SCDLP medium	20mL

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6. Test procedure

1) Sample preparation

All specimens were prepared in sterile dishes.

2) Sample inoculation

ISO 18184:2019: Transfer 0.2 mL of test inoculum to the test surface using a pipette.

3) Contact of inoculated samples

ISO 18184:2019: Unless otherwise specified, inoculated specimens (including untreated specimens) shall be kept at 25 ± 1 °C for 2 hours.

4) Recover the virus from the sample

After inoculation, eluent was added for elution to obtain test solution. The test solution was diluted by gradient, and the number of bacteriophages in the diluted test solution was quantitatively measured. The plates with plaque in the range of 6 PFU to 60PFU are counted. If the number of plaque at the minimum dilution is less than 6, the actual number is recorded; if there is no plaque, the plaque is recorded as "<1"

7. Test results

ISO 18184:2019: $V=10 \times Z \times R \times C$

Where N (PFU/cm²) /V (PFU/vial) is the infection titer of the virus recovered from the sample. C/Z is the average number of plaque in repeated pores. D/R is the dilution factor; A is the area of the covering film in cm², and V/C is the volume of the neutralizer/eluent added to the sample in milliliters (mL).

ISO 18184:2019: $M_v = \lg(V_a) - \lg(V_c)$,

Where, M_v is the antiviral activity value.

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8. Conclusion

The name of sample	Contact with 0h blank sample			Contact with 24h blank sample			Contact with 24h test sample		
	1	2	3	1	2	3	1	2	3
Viral infectivity titer PFU/cm ²	7.2×10 ⁸	7.0×10 ⁸	7.6×10 ⁸	9.0×10 ⁶	1.2×10 ⁷	1.0×10 ⁷	8.4×10 ⁵	7.8×10 ⁵	7.6×10 ⁵
logarithmic value	8.86	8.85	8.88	6.95	7.06	7.02	5.92	5.89	5.88
The average of the values	8.86			7.01			5.90		
Logarithmic reduction of the titer against the infection	1.85								
Antiviral activity value	2.96								
Evaluation standard	ISO 18184:2019 1) Antiviral activity value: 3.0 > Mv ≥ 2.0, good effect; 2) Antiviral activity value: Mv ≥ 3.0, excellent effect.								
The results of evaluation	Good effect								
Judgement standard	---								
Requirement	---								
Conclusion	---								
Remarks	Antiviral activity rate: 99.89% E. coli is used as an HPV host Washed 30 times in accordance with GB/T 20944.3-2008 10.1.2.								

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—End of Report—

Note

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