



LAB2612

Antiviral Activity Test Report

Laboratory: **LAB2612**

15 Tiding Blvd Sec 2 · 5F-2

Neihu Dist · Taipei City ·

Taiwan ROC

Test Order ID : WO-AVAT2010001-HJT

Report Date : 2020 Nov 02

Applicant: **Hock Joo Tex Enterprises Pte. Ltd.**

42 Kaki Bukit Place

Singapore, 416220

Singapore

Tel: +65 6298-2493

Reference	:	Sanitized AG/Archroma
Brand/Buyer	:	
Manufacturer	:	
Sample Receive Date	:	2020-Sep-25
Test Start Date	:	2020 Oct 21
Test Complete Date	:	2020 Oct 29
Issue No. :		1

Test performed in accordance to procedures and methods of ISO 18184:2019.

All Sample(s) and descriptions are provided by Applicant(s).

Results of test pertain to tested sample only, and may not be applicable to all production.

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Samuel YS Wang PhD., Director

LAB2612

Crystal HC Chiang PhD., Lab Manager

LAB2612



Test Summary

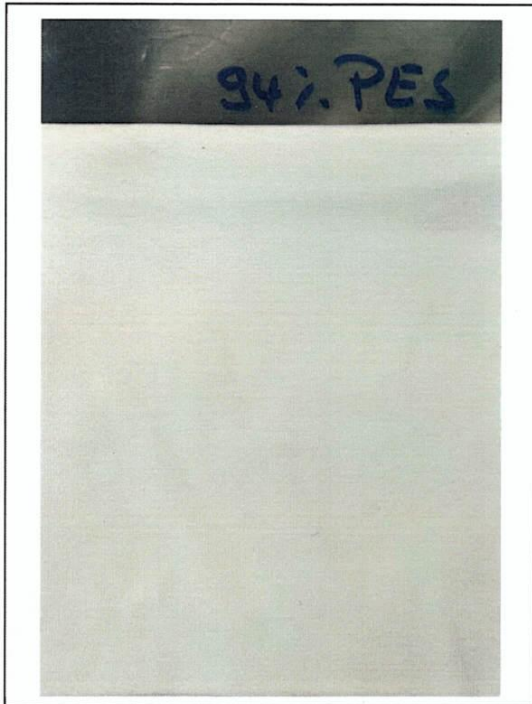
Test Temperature	25°C ±1°
Temperature of Incubation	37°C ±1°
Contact Times	0 hours and 2 hours, ±10s
Viral Strains	Feline coronavirus

Sample Information

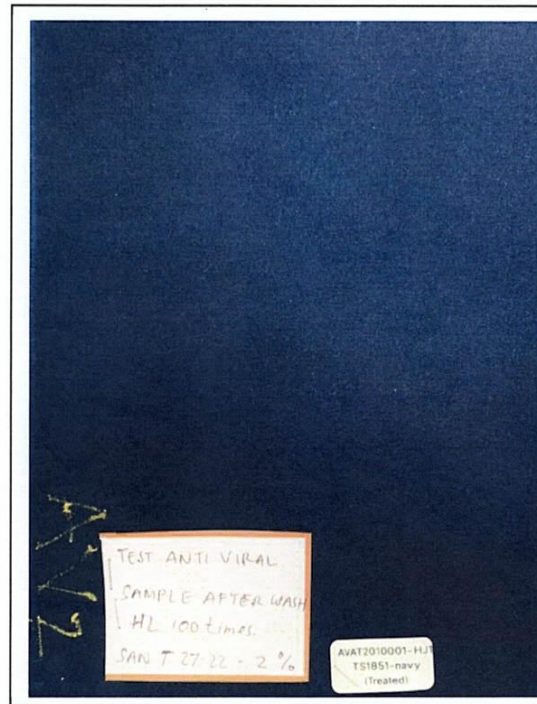
	Control Sample	Treatment Sample
Article ID	PES94EL06	TS1851
Manufacturer		
Date of Mfg.		2020-Aug-16
Textile Composition %	Polyester 94%, Elastic 6%	Tetoron 65%, Rayon 35% blue
Color & Description	white	navy
Width & Weight/m.sq		190 g/m. sq
Antiviral & dosage	untreated	Sanitized AG
Customer/Brand		

*Treatment Sample and descriptions provided by Applicant.

Control Sample: PES94EL06



Treatment Sample: TS1851



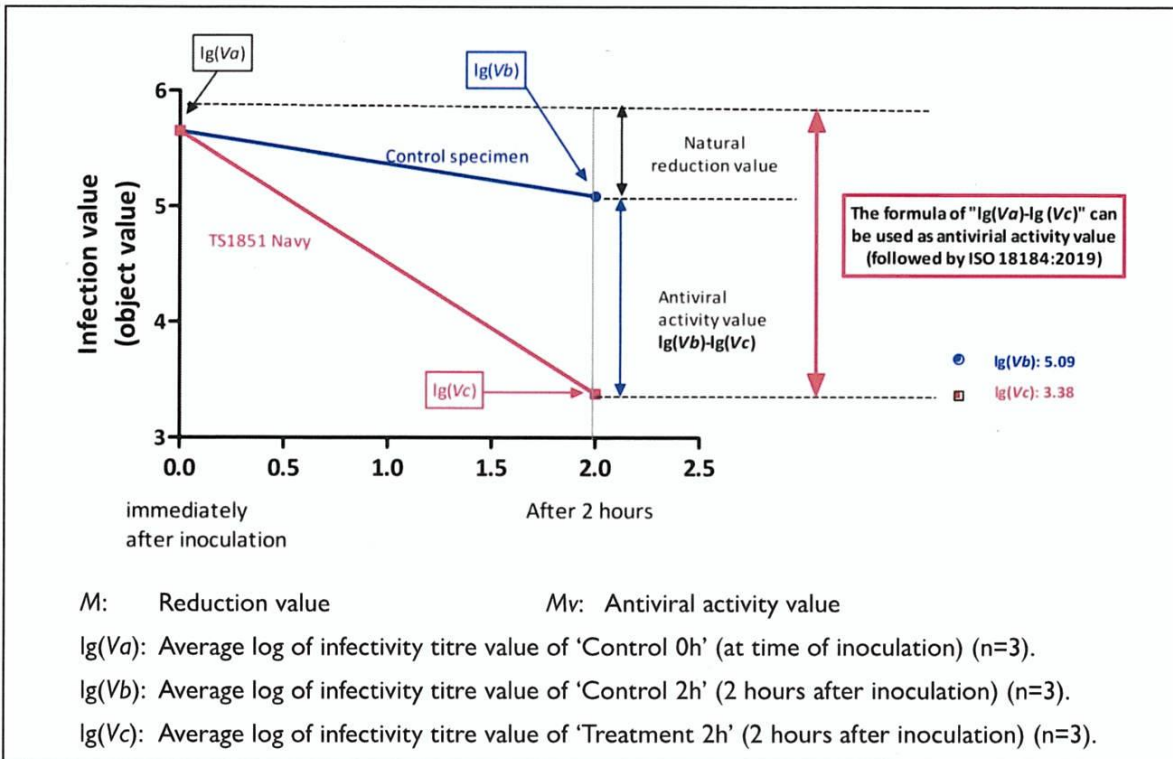
Test Results

The M_v of Treatment textile was 2.27, corresponding to a 99.46% suppression rate of Feline coronavirus (FCoV) at 2 hours.

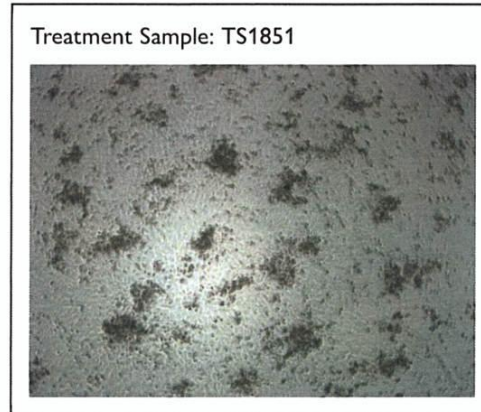
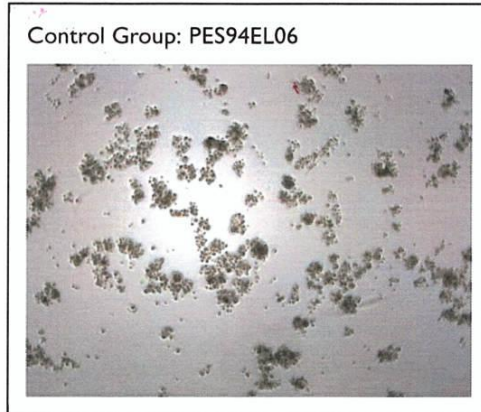
Data of Results

Test	Common Logarithm Infectivity Titre Value	
Control 0h (a)		5.65
Control 2h (b)		5.09
Treatment 2h (c)		3.38

Test	Infectivity Value $\lg(V)$	Antiviral Activity Value M_v	Viral Activity Reduction
Control 0h (a)	5.65	--	--
Treatment 2h (c)	3.38	2.27	99.46 %



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Virus Information

	Feline coronavirus (FCoV)	COVID-19 (SARS-CoV-2)
Realm	<i>Riboviria</i>	<i>Riboviria</i>
Order	<i>Nidovirales</i>	<i>Nidovirales</i>
Family	<i>Coronaviridae</i>	<i>Coronaviridae</i>
Genus	<i>Alphacoronavirus</i>	<i>Betacoronavirus</i>
Species	<i>Alphacoronavirus 1</i>	SARS-CoV

Methods

Determination of Antiviral Activity of Textile Products in Textiles executed according to ISO 18184:2019.

- 6 pieces of Control Sample and 3 pieces of Treatment Samples, 20x20mm each, are tested.
- Following the specified contact time (2h), the fabric is recovered by cell culture media and enumerated onto an appropriate cell line.
- TCID₅₀ is calculated following the appropriate incubation time. Antiviral activity is derived from comparison of the antiviral activity of Test Sample at specified time (2h) to antiviral activity of Control Sample at time of inoculation (0h).
- ISO 18184 Protocol: Validity of this test is verified by $M = \lg(Va/Vb) = \lg(Va) - \lg(Vb) \leq 1.0$

All reports are archived for a minimum of 2 years.

Non-infected samples will be retained for 1 month, unless otherwise requested.

Testing performed in lab sanctioned by R.O.C. Ministry of Health and Welfare.

*** End of Report ***