

RESUMEN DE RESULTADOS

RESULTS SUMMARY

2020AP0135

DETERMINACIÓN DE LA ACTIVIDAD ANTIVIRAL DE LOS PRODUCTOS TEXTILES
DETERMINATION OF ANTIVIRAL ACTIVITY OF TEXTILE PRODUCTS

Empresa / Company: REPRESENTACIONES DE DESCANSO S.L.

Alcoy, 14 de octubre de 2020
Alcoy, October 14th, 2020

DETERMINACIÓN DE LA ACTIVIDAD ANTIVIRAL DE LOS PRODUCTOS TEXTILES DETERMINATION OF ANTIVIRAL ACTIVITY OF TEXTILE PRODUCTS

Objetivo Objective

Determinar la actividad antiviral frente al virus Coronavirus felino (FCoV) del tejido referenciado por el cliente como **“TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK”**, con respecto a un tejido sin tratamiento referenciado como **“CONTROL”**.
*To determine the antiviral activity against the feline coronavirus (FcoV) of the fabric referenced by the customer as **“TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK”**, with respect to a fabric without treatment referenced as **“CONTROL”**.*

Norma Standard

ISO 18184:2019

Principio del Estudio Principle of the study

El virus es depositado sobre la muestra. Después de un tiempo de contacto de 2h, se realiza el recuento del virus que queda en la muestra, y se calcula la tasa de reducción del virus en escala logarítmica, comparando los resultados de la muestra tratada con respecto a la muestra control (sin tratamiento). *The viruses are deposited onto a specimen. After 2h of contact time, the remaining infectious virus is counted, and the reduction rate is calculated by the comparison between the antiviral product test specimen and the control specimen (without treatment).*

Laboratorio de ensayo Testing Laboratory

El estudio ha sido realizado en el laboratorio: Microbiological Solutions Ltd - MSL, Reino Unido.
The study was carried out in the laboratory: Microbiological Solutions Ltd - MSL, in UK.

Controles Controls

Cepa de virus analizado/ Test viral strain	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>		
	Criterio/ <i>Criteria</i>	Log Resultado/ <i>Log result</i>	Cumplimiento/ <i>Pass</i>
Inóculo inicial/ <i>Initial inoculum</i>	10^7	7.21	SÍ/ <i>Yes</i>
Citotoxicidad control/ <i>Control cytotoxicity</i>	Log(control)-Log(muestra) $\leq 0,5$ <i>Log(control)-Log(sample) $\leq 0,5$</i>	4.13	SÍ/ <i>Yes</i>
Citotoxicidad muestra/ <i>Cytotoxicity sample</i>		4.04	
Control inicial/ <i>Initial control</i>	Log(control t=0)-Log(control t=2) ≤ 1 <i>Log(control t=0)-Log(control t=2) ≤ 1</i>	5.08	SÍ/ <i>Yes</i>
Control ensayo/ <i>Test control</i>		4.61	

Resultados

Results

A continuación se resumen los resultados obtenidos, según el informe original, de la muestra "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK" / *The results obtained and provided in the original report, related to the sample "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK", are summarized below.*

Cepa de virus analizado / <i>Test viral strain</i>	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>	
Tiempo de contacto / <i>Contact time</i>	2h ± 10s	
Valor de Eficacia Antiviral (M _v) de la muestra "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK" <i>Antiviral efficacy value (M_v) of the sample: "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK"</i>	1.03 (M _v)	90.62% (porcentaje de reducción/ <i>reduction percentage</i>)
Valor de Eficacia Antiviral (M _v) del tejido control (sin tratamiento): "CONTROL" <i>Antiviral efficacy value (M_v) of the control fabric (without treatment): "CONTROL"</i>	0.47 (M _v)	66.29% (porcentaje de reducción/ <i>reduction percentage</i>)

Según el Anexo F de la norma ISO 18184:2019 el significado de los valores de actividad antiviral es: / *Meaning of the antiviral activity according to the annex F of the standard ISO 18184:2019 is:*

Valor de eficacia antiviral <i>Antiviral efficacy value (M_v)</i>	Eficacia de la propiedad antiviral <i>Efficacy of antiviral property</i>	Equivalencia en % Reducción <i>% Reduction Equivalency</i>
2 ≤ M _v ≤ 3	Buen efecto / <i>Good effect</i>	99 %
M _v ≥ 3	Efecto excelente / <i>Excellent effect</i>	99.9 %

Conclusiones

Conclusions

La muestra referenciada como "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK" ha mostrado una reducción logarítmica de 1.03, lo que supone un porcentaje de reducción del 90.62 % frente al Coronavirus felino (FCoV) tras 2h de contacto, cuando se ha probado en las condiciones descritas en el informe original "J001974".

The sample referenced as "TEJIDO COLCHÓN 100% PES SELFCLEAN.INK COVICLINIC.INK" has shown a logarithmic reduction of 1.03, which represents a reduction percentage of 90.62% against the feline coronavirus (FCoV) after 2h of contact, when it has been tested under the conditions described in the original report "J001974".

DETERMINACIÓN DE LA ACTIVIDAD ANTIVIRAL DE LOS PRODUCTOS TEXTILES

DETERMINATION OF ANTIVIRAL ACTIVITY OF TEXTILE PRODUCTS

Objetivo

Objective

Determinar la actividad antiviral frente al virus Coronavirus felino (FCoV) del tejido referenciado por el cliente como "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK", con respecto a un tejido sin tratamiento referenciado como "CONTROL". *To determine the antiviral activity against the feline coronavirus (FcoV) of the fabric referenced by the customer as "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK", with respect to a fabric without treatment referenced as "CONTROL".*

Norma

Standard

ISO 18184:2019

Principio del Estudio

Principle of the study

El virus es depositado sobre la muestra. Después de un tiempo de contacto de 2h, se realiza el recuento del virus que queda en la muestra, y se calcula la tasa de reducción del virus en escala logarítmica, comparando los resultados de la muestra tratada con respecto a la muestra control (sin tratamiento). *The viruses are deposited onto a specimen. After 2h of contact time, the remaining infectious virus is counted, and the reduction rate is calculated by the comparison between the antiviral product test specimen and the control specimen (without treatment).*

Laboratorio de ensayo

Testing Laboratory

El estudio ha sido realizado en el laboratorio: Microbiological Solutions Ltd - MSL, Reino Unido.
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Controles

Controls

Cepa de virus analizado/ <i>Test viral strain</i>	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>		
	Criterio/ <i>Criteria</i>	Log Resultado/ <i>Log result</i>	Cumplimiento/ <i>Pass</i>
Inóculo inicial/ <i>Initial inoculum</i>	10^7	7.21	SÍ/ <i>Yes</i>
Citotoxicidad control/ <i>Control cytotoxicity</i>	Log(control)-Log(muestra) $\leq 0,5$ <i>Log(control)-Log(sample) $\leq 0,5$</i>	4.08	SÍ/ <i>Yes</i>
Citotoxicidad muestra/ <i>Cytotoxicity sample</i>		4.04	
Control inicial/ <i>Initial control</i>	Log(control t=0)-Log(control t=2) ≤ 1 <i>Log(control t=0)-Log(control t=2) ≤ 1</i>	5.03	SÍ/ <i>Yes</i>
Control ensayo/ <i>Test control</i>		4.50	

Resultados

Results

A continuación se resumen los resultados obtenidos, según el informe original, de la muestra "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK" / The results obtained and provided in the original report, related to the sample "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK", are summarized below.

Cepa de virus analizado / <i>Test viral strain</i>	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>	
Tiempo de contacto / <i>Contact time</i>	2h ± 10s	
Valor de Eficacia Antiviral (M _v) de la muestra "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK" <i>Antiviral efficacy value (M_v) of the sample: "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK"</i>	0.96 (M _v)	88.89% (porcentaje de reducción/ <i>reduction percentage</i>)
Valor de Eficacia Antiviral (M _v) del tejido control (sin tratamiento): "CONTROL" <i>Antiviral efficacy value (M_v) of the control fabric (without treatment): "CONTROL"</i>	0.53 (M _v)	70.34% (porcentaje de reducción/ <i>reduction percentage</i>)

Según el Anexo F de la norma ISO 18184:2019 el significado de los valores de actividad antiviral es: / *Meaning of the antiviral activity according to the annex F of the standard ISO 18184:2019 is:*

Valor de eficacia antiviral <i>Antiviral efficacy value (M_v)</i>	Eficacia de la propiedad antiviral <i>Efficacy of antiviral property</i>	Equivalencia en % Reducción <i>% Reduction Equivalency</i>
$2 \leq M_v \leq 3$	Buen efecto / <i>Good effect</i>	99 %
$M_v \geq 3$	Efecto excelente / <i>Excellent effect</i>	99.9 %

Conclusiones

Conclusions

La muestra referenciada como "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK" ha mostrado una reducción logarítmica de 0.96, lo que supone un porcentaje de reducción del 88.89 % frente al Coronavirus felino (FCoV) tras 2h de contacto, cuando se ha probado en las condiciones descritas en el informe original "J001974".

The sample referenced as "TAPICERÍA SELFCLEAN.INK COVICLINIC.INK" has shown a logarithmic reduction of 0.96, which represents a reduction percentage of 88.89% against the feline coronavirus (FCoV) after 2h of contact, when it has been tested under the conditions described in the original report "J001974".

DETERMINACIÓN DE LA ACTIVIDAD ANTIVIRAL DE LOS PRODUCTOS TEXTILES DETERMINATION OF ANTIVIRAL ACTIVITY OF TEXTILE PRODUCTS

Objetivo

Objective

Determinar la actividad antiviral frente al virus Coronavirus felino (FCoV) del tejido referenciado por el cliente como “TEJIDO NÓRDICO SELF CLEAN.INK”, con respecto a un tejido sin tratamiento referenciado como “CONTROL”. *To determine the antiviral activity against the feline coronavirus (FcoV) of the fabric referenced by the customer as “TEJIDO NÓRDICO SELF CLEAN.INK”, with respect to a fabric without treatment referenced as “CONTROL”.*

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Controles

Controls

Cepa de virus analizado/ <i>Test viral strain</i>	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>		
	Criterio/ <i>Criteria</i>	Log Resultado/ <i>Log result</i>	Cumplimiento/ <i>Pass</i>
Inóculo inicial/ <i>Initial inoculum</i>	10^7	7.21	SÍ/ <i>Yes</i>
Citotoxicidad control/ <i>Control cytotoxicity</i>	Log(control)-Log(muestra) $\leq 0,5$ <i>Log(control)-Log(sample) $\leq 0,5$</i>	4.08	SÍ/ <i>Yes</i>
Citotoxicidad muestra/ <i>Cytotoxicity sample</i>		4.00	
Control inicial/ <i>Initial control</i>	Log(control t=0)-Log(control t=2) ≤ 1 <i>Log(control t=0)-Log(control t=2) ≤ 1</i>	5.22	SÍ/ <i>Yes</i>
Control ensayo/ <i>Test control</i>		4.46	

Resultados

Results

A continuación se resumen los resultados obtenidos, según el informe original, de la muestra "TEJIDO NÓRDICO SELFCLEAN.INK" / The results obtained and provided in the original report, related to the sample "TEJIDO NÓRDICO SELFCLEAN.INK", are summarized below.

Cepa de virus analizado / Test viral strain	Coronavirus felino, strain Munich/ Feline coronavirus, strain Munich	
Tiempo de contacto / Contact time	2h ± 10s	
Valor de Eficacia Antiviral (M _v) de la muestra "TEJIDO NÓRDICO SELFCLEAN.INK" <i>Antiviral efficacy value (M_v) of the sample: "TEJIDO NÓRDICO SELFCLEAN.INK"</i>	1.17 (M _v)	93.19% (porcentaje de reducción/ reduction percentage)
Valor de Eficacia Antiviral (M _v) del tejido control (sin tratamiento): "CONTROL" <i>Antiviral efficacy value (M_v) of the control fabric (without treatment): "CONTROL"</i>	0.76 (M _v)	82.78% (porcentaje de reducción/ reduction percentage)

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2 ≤ M _v ≤ 3	Buen efecto / Good effect	99 %
M _v ≥ 3	Efecto excelente / Excellent effect	99.9 %

Conclusiones

Conclusions

La muestra referenciada como "TEJIDO NÓRDICO SELFCLEAN.INK" ha mostrado una reducción logarítmica de 1.17, lo que supone un porcentaje de reducción del 93.19 % frente al Coronavirus felino (FCoV) tras 2h de contacto, cuando se ha probado en las condiciones descritas en el informe original "J001974".

The sample referenced as "TEJIDO NÓRDICO SELFCLEAN.INK" has shown a logarithmic reduction of 1.17, which represents a reduction percentage of 93.19% against the feline coronavirus (FCoV) after 2h of contact, when it has been tested under the conditions described in the original report "J001974".

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	Criterio/ <i>Criteria</i>	Log Resultado/ <i>Log result</i>	Cumplimiento/ <i>Pass</i>
Inóculo inicial/ <i>Initial inoculum</i>	10^7	7.21	SÍ/ <i>Yes</i>
Citotoxicidad control/ <i>Control cytotoxicity</i>	Log(control)-Log(muestra) $\leq 0,5$ <i>Log(control)-Log(sample) $\leq 0,5$</i>	4.00	SÍ/ <i>Yes</i>
Citotoxicidad muestra/ <i>Cytotoxicity sample</i>		3.88	
Control inicial/ <i>Initial control</i>	Log(control t=0)-Log(control t=2) ≤ 1 <i>Log(control t=0)-Log(control t=2) ≤ 1</i>	5.22	SÍ/ <i>Yes</i>
Control ensayo/ <i>Test control</i>		5.06	

Resultados

Results

A continuación se resumen los resultados obtenidos, según el informe original, de la muestra "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK" / The results obtained and provided in the original report, related to the sample "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK", are summarized below.

Cepa de virus analizado / <i>Test viral strain</i>	Coronavirus felino, strain Munich/ <i>Feline coronavirus, strain Munich</i>	
Tiempo de contacto / <i>Contact time</i>	2h ± 10s	
Valor de Eficacia Antiviral (M _v) de la muestra "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK" <i>Antiviral efficacy value (M_v) of the sample: "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK"</i>	1.21 (M _v)	93.81% (porcentaje de reducción/ <i>reduction percentage</i>)
Valor de Eficacia Antiviral (M _v) del tejido control (sin tratamiento): "CONTROL" <i>Antiviral efficacy value (M_v) of the control fabric (without treatment): "CONTROL"</i>	0.17 (M _v)	31.87% (porcentaje de reducción/ <i>reduction percentage</i>)

Según el Anexo F de la norma ISO 18184:2019 el significado de los valores de actividad antiviral es: / *Meaning of the antiviral activity according to the annex F of the standard ISO 18184:2019 is:*

Valor de eficacia antiviral <i>Antiviral efficacy value (M_v)</i>	Eficacia de la propiedad antiviral <i>Efficacy of antiviral property</i>	Equivalencia en % Reducción <i>% Reduction Equivalency</i>
2 ≤ M _v ≤ 3	Buen efecto / <i>Good effect</i>	99 %
M _v ≥ 3	Efecto excelente / <i>Excellent effect</i>	99.9 %

Conclusiones

Conclusions

La muestra referenciada como "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK" ha mostrado una reducción logarítmica de 1.21, lo que supone un porcentaje de reducción del 93.81 % frente al Coronavirus felino (FCoV) tras 2h de contacto, cuando se ha probado en las condiciones descritas en el informe original "J001974".

The sample referenced as "TEJIDO SÁBANA SELFCLEAN.INK COVICLINIC.INK" has shown a logarithmic reduction of 1.21, which represents a reduction percentage of 93.81% against the feline coronavirus (FCoV) after 2h of contact, when it has been tested under the conditions described in the original report "J001974".

ANEXO: INFORME ORIGINAL “J001974”

**ANNEX:
ORIGINAL REPORT "J001974"**

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

Microbiological Solutions Limited (MSL)
Gollinrod, Walmersley, Bury, BL9 5NB, UK

Angela Davies, CEO

Customer: Asociacion de Investigacion de la Indutria Textil (AITEX)

Contact name: Bruno Marco

Email: bmarco@aitex.es

Address: Plaza Emilio Sala No1

Alcoy

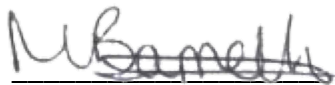
Alicante 03801

Spain

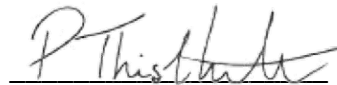
PO/Quote number: Q002999

Report Date: 08/10/2020

Issue Number: 1



Megan Barrett
Laboratory Manager



Peter Thistlethwaite
Technical Projects Manager

Test information		Deviation
Name of Product	SAN-T Control 1 SAN-T Test 1 SAN-C Control 2 SAN-C Test 2 SAN-S Control 3 SAN-S Test 3 VIR-S Control 4 VIR-S Test 4	/
Batch Number & Expiry Date	N/S	
Date of Delivery	18/06/2020	
Period of Analysis	24/09/2020-01/10/2020	
Manufacturer / Supplier	Asociacion de Investigacion de la Industria Textil (AITEK)	
Storage Conditions	Ambient	
Appearance of the Product	Thin white fabrics	
Neutralisation Method	Dilution	
Test Concentrations	As supplied	
Test Temperature	25°C \pm 1°C	
Temperature of Incubation	37°C \pm 1°C	
Identification of the Viral Strains:	Feline corona virus, Strain Munich	
Contact Times	2hours	

Test Result Summary

<p>The test fabrics showed the following log reductions when tested against Feline coronavirus with a 2 hour contact time:</p> <p>Test 1 – 0.96log (88.99%)</p> <p>Test 2 – 1.03log (90.62%)</p> <p>Test 3 – 1.17log (93.19%)</p> <p>Test 4 – 1.21log (93.81%)</p>

The test results on this report refer only to the items tested as supplied by the customer. This report shall not be reproduced except in full and with written approval of Microbiological Solutions Ltd. All reports are archived for a minimum of 2 years.
The sample will be retained for 1 month unless otherwise requested in writing.

	Feline coronavirus	COVID-19 (SARS—CoV2)
Realm	Riboviria	Riboviria
Order	Nidovirales	Nidovirales
Family	Coronaviridae	Coronaviridae
Genus	Alphacoronavirus	Betacoronavirus
Species	Alphacoronavirus 1	COVID-19

The members of the family Coronaviridae are enveloped and have a positive sense RNA genome. Coronaviruses have a distinct morphology with an outer ‘corona’ of embedded envelope spikes. These viruses cause a broad spectrum of animal and human disease.

Andrew M.Q. King, Michael J. Adams, Eric B. Carstens, and Elliot J. Lefkowitz ‘Virus Taxonomy, Classification and Nomenclature of Viruses, Ninth Report of the International Committee on Taxonomy of Viruses’ 2012 ISBN 9780123846846

Scope

This standard outlines the test method for the determination of the antiviral activity of the textile products against specified viruses.

Method

A 20mmx20mm sample of test material is cut (overall mass should be 0.40g and can be made up with extra material if required). 9 control pieces are required and 6 test pieces.

3 pieces of each material are used to test the effect of the fabric on cells without virus (cytotoxicity), 3 control pieces are used to recover the starting titre of virus. The remaining pieces are inoculated with 200µl of virus at a concentration of $\sim 10^7$ TCID₅₀ (giving a final concentration of 10^5) and left for the contact time.

Following the contact time, the fabric is recovered in 20ml of cell culture media and enumerated onto an appropriate cell line. TCID₅₀ is calculated following the appropriate incubation time. Antiviral activity is calculated by comparison of the antiviral test material to the immediate recover from the control fabric.

Test 1 Results

0 hours		
Sample	Log recovery	Average
Control 1	5.00	5.03
Control 2	5.21	
Control 3	4.88	

Controls		
Initial inoculum	7.21	Valid
Cytotoxicity Control	4.08	Valid
Cytotoxicity Test 1	4.04	Valid

Contact time:2 hour				
Sample	Log recovery	Average	Reduction	Percentage
Control 1	4.38	4.50	0.53	70.34%
Control 2	4.71			
Control 3	4.42			
Test 1	3.92	4.07	0.96	88.99%
Test 2	4.13			
Test 3	4.17			

*Control fabric must not show >1 log reduction

Test 2 Results

0 hours		
Sample	Log recovery	Average
Control 1	5.08	5.08
Control 2	5.21	
Control 3	4.96	

Controls		
Initial inoculum	7.21	Valid
Cytotoxicity Control	4.13	Valid
Cytotoxicity Test 1	4.04	Valid

Contact time:2 hour				
Sample	Log recovery	Average	Reduction	Percentage
Control 1	4.67	4.61	0.47	66.29%
Control 2	4.71			
Control 3	4.46			
Test 1	4.00	4.06	1.03	90.62%
Test 2	4.04			
Test 3	4.13			

*Control fabric must not show >1 log reduction

Test 3 Results

0 hours		
Sample	Log recovery	Average
Control 1	5.13	5.22
Control 2	5.33	
Control 3	5.21	

Controls		
Initial inoculum	7.21	Valid
Cytotoxicity Control	4.08	Valid
Cytotoxicity Test 1	4.00	Valid

Contact time:2 hour				
Sample	Log recovery	Average	Reduction	Percentage
Control 1	4.58	4.46	0.76	82.78%
Control 2	4.46			
Control 3	4.33			
Test 1	4.00	4.06	1.17	93.19%
Test 2	4.13			
Test 3	4.04			

*Control fabric must not show >1 log reduction

Test 4 Results

0 hours		
Sample	Log recovery	Average
Control 1	5.13	5.22
Control 2	5.46	
Control 3	5.08	

Controls		
Initial inoculum	7.21	Valid
Cytotoxicity Control	4.00	Valid
Cytotoxicity Test 1	3.88	Valid

Contact time:2 hour				
Sample	Log recovery	Average	Reduction	Percentage
Control 1	4.88	5.06	0.17	31.87%
Control 2	4.79			
Control 3	5.50			
Test 1	3.96	4.01	1.21	93.81%
Test 2	4.04			
Test 3	4.04			

*Control fabric must not show >1 log reduction