



R2111FSVES001

Antiviral activity of Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS  
AGED surface against human coronavirus SARS-CoV2 for a contact time of 24  
hours according to ISO 21702 (2019) standard

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Report includes 12 pages

## SUMMARY

I.	<b>CONCLUSION .....</b>	<b>3</b>
II.	<b>CONTRACTUAL DOCUMENTS.....</b>	<b>4</b>
III.	<b>TEST CONDITIONS AND SAMPLES DATA.....</b>	<b>4</b>
III.1	SAMPLES IDENTIFICATION .....	4
III.2	EXPERIMENTAL CONDITIONS.....	5
IV.	<b>RESULTS .....</b>	<b>6</b>
	ANTIVIRAL ACTIVITY OF THE VESTATIS HS 360 COATING – 6% NPS FAST - 3 YEARS AGED SURFACE AGAINST HUMAN CORONAVIRUS SARS-CoV2 FOR A CONTACT TIME OF 24 HOURS .....	6
a.	<i>Cell susceptibility .....</i>	6
b.	<i>Cytotoxicity .....</i>	6
c.	<i>Inactivation of antiviral activity.....</i>	7
d.	<i>Test .....</i>	8
V.	<b>ANNEXES .....</b>	<b>9</b>
V.1	MATERIALS AND REAGENTS .....	9
V.2	RAW DATA: HUMAN CORONAVIRUS SARS-CoV2 .....	10

## I. CONCLUSION

Antiviral activities of the Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED surface and non-active surface have been tested under conditions defined by the ISO 21702 (2019) protocol for a contact time of 24 hours against Human coronavirus SARS-CoV2.

The Glass plate surface is the control for this test.

- Human coronavirus SARS-CoV2, 24 hours

Under experimental conditions (25°C, 24 hours, 90% RH), the Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED surface shows an antiviral activity per cm<sup>2</sup> associated with a logarithmic reduction of  $1.8\log_{10}(98.42\%)$  efficiency under the ISO 21702 standard protocol.

PRODUCT	Contact time	Antiviral activity R ( $\log_{10}/\text{cm}^2$ )	Antiviral activity (%)
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	24 hours	<b>R= 1.8</b>	98.42

## II. CONTRACTUAL DOCUMENTS

The present service is defined by the following contractual documents:

. Quotation	DEV0644
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## III. TEST CONDITIONS AND SAMPLES DATA

### III.1 Samples identification

Surface	<b>Active surface : Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED</b>	<b>Reference surface : Glass plate</b>
Appearance	Slight yellow	Transparent
Size (cm)	5 x 5	5 x 5
Thickness (mm)	4	4
Porous / non-porous	Non-porous	Non-porous

**Manufacturer:** VESTATIS

**Supplier:** VESTATIS

**Storage conditions:** room temperature

**Evaluation period:** 10/2021

### III.2 Experimental conditions

Experimental Conditions	
Date	- 29/10/2020
Viral strain	Human coronavirus SARS-CoV2
Inoculum volume	400 µL
Cover film	4cm x 4 cm = 16cm <sup>2</sup>
Temperature	25°C ± 1
Humidity HR (%)	90% ± 5
Contact time	24 hours
Interfering substance	n.a
Neutralisation	Submerging in 10mL of SCDLP medium
Quantification	endpoint titration on permissive cells
Number of wells per dilution	8
Incubation temperature	37 ± 1 °C

## IV. RESULTS

Antiviral activity of the Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED surface against Human coronavirus SARS-CoV2 for a contact time of 24 hours

### a. Cell susceptibility

Surface	$\log_{10}$ TCID <sub>50</sub> /mL
SCDLP medium	7.0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	6.9
Glass plate	7.0
Active Surface: Difference < 0.5 $\log_{10}$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	
Inactive Surface: Difference < 0.5 $\log_{10}$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	

### b. Cytotoxicity

The test surface cytotoxicity is determined by reading of cytopathic effect (CPE) on VERO E6 permissive cells and quantified by TCID<sub>50</sub> technique.

For viral recuperation on surface, the surfaces are submerging in 10mL of SCDLP medium (recuperation buffer). The recuperation buffer cytotoxicity is determined by reading of cytopathic effect (CPE).

Under test conditions, the recuperations buffers from Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED surface and reference surfaces show cytopathic effects on VERO E6 cells for a contact time of 12, 24 and 36 hours.

The test results are dependent on and take into account the cytotoxicity results.

c. Inactivation of antiviral activity

Product	$\log_{10}$ TCID <sub>50</sub> /mL
$S_n$ = SCDLP medium	5.4
$S_t$ = Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	5.4
$S_u$ = Glass plate (reference)	5.4
$S_n - S_u \leq 0.5 \quad \square$ yes <input type="checkbox"/> no	
$S_n - S_t \leq 0.5 \quad \square$ yes <input type="checkbox"/> no	

*Explanations:*

$S_n$ : the average of the common logarithm of the infectivity titer of virus from three specimens of the SCDLP broth for negative control.

$S_u$ : the average of the common logarithm of the infectivity titer of virus recovered from three untreated test specimens;

$S_t$ : the average of the common logarithm of the infectivity titer of virus recovered from three test specimens.

#### d. Test

Raw data for antiviral activity of Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED surface and reference surfaces against Human coronavirus SARS-CoV2 under test conditions (25°C, 24 hours, 90% RH) are presented in appendices.

Results have been determined by visual reading of cytopathic effects (CPE) and quantified by TCID<sub>50</sub> technique on VERO E6 cells.

Surface	Cytotoxicity (log <sub>10</sub> TCID <sub>50</sub> )	Specimen	U <sub>0</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	U <sub>t24h</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )
<b>Glass plate</b>	1.5	L1	5.2	4.6
		L2	5.4	4.3
		L3	5.2	4.3
		Average	<b>5.3</b>	<b>4.4</b>

Surface	Cytotoxicity (log <sub>10</sub> TCID <sub>50</sub> )	Specimen	A <sub>0</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	A <sub>24</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )
<b>Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED</b>	1.5	L1	5.4	2.6
		L2	5.2	2.6
		L3	5.1	2.6
		Average	<b>5.2</b>	<b>2.6</b>
		R (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	/	<b>1.8</b>

*R* is the antiviral activity

*U<sub>0</sub>* is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three untreated test specimens immediately after inoculation

*U<sub>t</sub>* is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three untreated test specimens

*A<sub>0</sub>* is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three treated test specimens immediately after inoculation

*A<sub>t</sub>* is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three treated test specimens.

The logarithmic value of the number of TCID<sub>50</sub> recovered immediately after inoculation from untreated test specimen (*U<sub>0</sub>*) satisfies the requirement below:  $(L_{\max} - L_{\min}) / (L_{\text{mean}}) \leq 0.2$ .

The number of virus recovered from each untreated test specimen after contacting for 24 h shall not be less than  $6.2 \times 10^2$  TCID<sub>50/cm<sup>2</sup></sub>.

## V. ANNEXES

### V.1 Materials and reagents

- Cell line and viral strain

	Name	Number of passages	Batch number	Quantification
<b>Cell line</b>	VERO E6 (ATCC CCL-81)	8	ATCC CCL-81-3	n.a.
<b>Viral strain</b>	Coronavirus SARS-COV-2 BetaCoV/France/IDF0571/2020 (Accession ID = EPI_ISL_411218)	n.a.	052021SARS2-1	$1.10^7$ TCID <sub>50</sub> /mL

- Reagents

	Name	Batch number	Expiration Date	Preparation
<b>Medium</b>	DMEM	0000939603	14/10/2022	n.a.
<b>Antibiotics</b>	Penicillin and streptomycin	2240841	30/07/2022	1%
<b>L-Glutamine</b>	L-GLU	2248755	03/2022	1%
<b>SVF</b>	SVF	S73136	04/09/2024	5 % (culture) 2% (infection)

## V.2 Raw data: human coronavirus SARS-CoV2

Product	Contact time (h)	Dilutions (-log)							
		P	1	2	3	4	5	6	7
<b>Cytotoxicity</b>									
Glass plate	24	44444444	0	0	0	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	24	44444444	0	0	0	0	0	0	0
<b>Cell susceptibility</b>									
SCDLP	/	44444444	44444444	44444444	44444444	44444444	10012010	0	0
Glass plate	/	44444444	44444444	44444444	44444444	44444444	22032000	0	0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	/	44444444	44444444	44444444	44444444	44444444	00120020	0	0
<b>A0/U0</b>									
Glass plate	/	44444444	44444444	44444444	44444444	24012000	12000200	0	0
	0	44444444	44444444	44444444	44444444	20320202	12010001	0	0
	0	44444444	44444444	44444444	44444444	11002101	00110000	0	0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	0	44444444	44444444	44444444	44444444	01412000	0232020	0	0
	0	44444444	44444444	44444444	44444444	22003202	00110000	0	0
	0	44444444	44444444	44444444	44444444	30020022	01200000	0	0
<b>Suppression of product's activity</b>									
SCDLP	/	44444444	44444444	44444444	44444444	01000000	0	0	0
	/	44444444	44444444	44444444	44444444	0	0	0	0
	/	44444444	44444444	44444444	44444444	0	0	0	0
Glass plate	/	44444444	44444444	44444444	44444444	02000003	0	0	0
	/	44444444	44444444	44444444	44444444	00200000	0	0	0
	/	44444444	44444444	44444444	44444444	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	/	44444444	44444444	44444444	44444444	0	0	0	0
	/	44444444	44444444	44444444	44444444	0	0	0	0
	/	44444444	44444444	44444444	44444444	02001000	0	0	0
<b>TEST</b>									
Glass plate	24	44444444	44444444	44444444	44444444	01400000	0	0	0
	24	44444444	44444444	44444444	44444444	0	0	0	0
	24	44444444	44444444	44444444	44444444	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST - 3 YEARS AGED	24	44444444	44444444	01200000	0	0	0	0	0
	24	44444444	44444444	00200010	0	0	0	0	0
	24	44444444	44444444	00110000	0	0	0	0	0

*Explanations:*

- 1-4: degrees of CPE in 8 cell culture unit (microtiter plate)
- 0: no virus present
- n.a: not applicable
- n.d: not done



R2106FSVES001

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human coronavirus SARS-CoV2 for a contact time of 12, 24 and 36 hours  
according to ISO 21702 (2019) standard

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**TECHNICAL  
CONTRIBUTION**

Léa Szpiro, technical manager  
Loranne Durimel, laboratory technician

**Quality validation**

Name : Dr Vincent MOULES, CEO

Date : Lyon, 17/06/2021

Signature :

A handwritten signature in black ink is placed over a blue rectangular stamp. The stamp contains the text: "VirHealth SAS", "Centre d'Innovation", "Bât Domilyon 321 av.Jean Jaurès", "69007 Lyon France", and "Siret 81204535900013". The signature appears to be "Dr Vincent MOULES".

Report includes 12 pages

## SUMMARY

<b>I.</b>	<b>CONCLUSION .....</b>	<b>3</b>
<b>II.</b>	<b>CONTRACTUAL DOCUMENTS.....</b>	<b>5</b>
<b>III.</b>	<b>TEST CONDITIONS AND SAMPLES DATA.....</b>	<b>5</b>
<b>III.1</b>	<b>SAMPLES IDENTIFICATION .....</b>	<b>5</b>
<b>III.2</b>	<b>EXPERIMENTAL CONDITIONS.....</b>	<b>6</b>
<b>IV.</b>	<b>RESULTS .....</b>	<b>7</b>
ANTIVIRAL ACTIVITY OF THE VESTATIS HS 360 COATING – 6% NPS FAST SURFACE AGAINST HUMAN		
CORONAVIRUS SARS-CoV2 FOR A CONTACT TIME OF 12, 24 AND 36 HOURS .....		7
a.	<i>Cell susceptibility .....</i>	7
b.	<i>Cytotoxicity .....</i>	7
c.	<i>Inactivation of antiviral activity.....</i>	8
d.	<i>Test .....</i>	9
<b>V.</b>	<b>ANNEXES .....</b>	<b>10</b>
<b>V.1</b>	<b>MATERIALS AND REAGENTS .....</b>	<b>10</b>
<b>V.2</b>	<b>RAW DATA: HUMAN CORONAVIRUS SARS-CoV2 .....</b>	<b>11</b>

## I. CONCLUSION

Antiviral activities of the Vestatis HS 360 COATING – 6% NPS FAST surface and non-active surface have been tested under conditions defined by the ISO 21702 (2019) protocol for a contact time of 12, 24 and 36 hours against Human coronavirus SARS-CoV2.

The Glass plate surface is the control for this test.

- Human coronavirus SARS-CoV2, 12 hours

Under experimental conditions (25°C, 12 hours, 90% RH), the Vestatis HS 360 COATING – 6% NPS FAST surface shows an antiviral activity per cm<sup>2</sup> associated with a logarithmic reduction of 3.1log<sub>10</sub> (99.92%) efficiency under the ISO 21702 standard protocol.

PRODUCT	Contact time	Antiviral activity R (log <sub>10</sub> /cm <sup>2</sup> )	Antiviral activity (%)
Vestatis HS 360 COATING – 6% NPS FAST	12 hours	<b>R= 3.1</b>	99.92

- Human coronavirus SARS-CoV2, 24 hours

Under experimental conditions (25°C, 24 hours, 90% RH), the Vestatis HS 360 COATING – 6% NPS FAST surface shows an antiviral activity per cm<sup>2</sup> associated with a logarithmic reduction of 2.7log<sub>10</sub> (99.80%) efficiency under the ISO 21702 standard protocol.

PRODUCT	Contact time	Antiviral activity R (log <sub>10</sub> /cm <sup>2</sup> )	Antiviral activity (%)
Vestatis HS 360 COATING – 6% NPS FAST	24 hours	<b>R= 2.7*</b>	99.80

\*: R max due to the limit of detection



- Human coronavirus SARS-CoV2, 36 hours

Under experimental conditions (25°C, 36 hours, 90% RH), the Vestatis HS 360 COATING – 6% NPS FAST surface shows an antiviral activity per cm<sup>2</sup> associated with a logarithmic reduction of 2.2log<sub>10</sub> (99.37%) efficiency under the ISO 21702 standard protocol.

PRODUCT	Contact time	Antiviral activity R (log <sub>10</sub> /cm <sup>2</sup> )	Antiviral activity (%)
Vestatis HS 360 COATING – 6% NPS FAST	36 hours	<b>R= 2.2*</b>	99.37

\*: R max due to the limit of detection

## II. CONTRACTUAL DOCUMENTS

The present service is defined by the following contractual documents:

. Quotation	DEV0497
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## III. TEST CONDITIONS AND SAMPLES DATA

### III.1 Samples identification

Surface	Active surface : Vestatis HS 360 COATING – 6% NPS FAST	Reference surface : Glass plate
Appearance	Transparent	Transparent
Size (cm)	5 x 5	5 x 5
Thickness (mm)	4	4
Porous / non-porous	Non-porous	Non-porous

**Manufacturer:** VESTATIS

**Supplier:** VESTATIS

**Storage conditions:** room temperature

**Evaluation period:** 06/2021

### III.2 Experimental conditions

Experimental Conditions	
Date	- 01/06/2020
Viral strain	Human coronavirus SARS-CoV2
Inoculum volume	400 µL
Cover film	4cm x 4 cm = 16cm <sup>2</sup>
Temperature	25°C ± 1
Humidity HR (%)	90% ± 5
Contact time	12, 24 and 36 hours
Interfering substance	n.a
Neutralisation	Submerging in 10mL of SCDLP medium
Quantification	endpoint titration on permissive cells
Number of wells per dilution	8
Incubation temperature	37 ± 1 °C

## IV. RESULTS

Antiviral activity of the Vestatis HS 360 COATING – 6% NPS FAST surface against Human coronavirus SARS-CoV2 for a contact time of 12, 24 and 36 hours

### a. Cell susceptibility

Surface	$\log_{10}$ TCID <sub>50</sub> /mL
SCDLP medium	7.7
Vestatis HS 360 COATING – 6% NPS FAST	7.8
Glass plate	7.7
Active Surface: Difference < 0.5 $\log_{10}$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	
Inactive Surface: Difference < 0.5 $\log_{10}$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	

### b. Cytotoxicity

The test surface cytotoxicity is determined by reading of cytopathic effect (CPE) on VERO E6 permissive cells and quantified by TCID<sub>50</sub> technique.

For viral recuperation on surface, the surfaces are submerging in 10mL of SCDLP medium (recuperation buffer). The recuperation buffer cytotoxicity is determined by reading of cytopathic effect (CPE).

Under test conditions, the recuperations buffers from Vestatis HS 360 COATING – 6% NPS FAST surface and reference surfaces show cytopathic effects on VERO E6 cells for a contact time of 12, 24 and 36 hours.

The test results are dependent on and take into account the cytotoxicity results.

c. Inactivation of antiviral activity

Product	$\log_{10}$ TCID <sub>50</sub> /mL
$S_n$ = SCDLP medium	6.0
$S_t$ = Vestatis HS 360 COATING – 6% NPS FAST	6.0
$S_u$ = Glass plate (reference)	5.9
$S_n - S_u \leq 0.5$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	
$S_n - S_t \leq 0.5$ <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	

*Explanations:*

$S_n$ : the average of the common logarithm of the infectivity titer of virus from three specimens of the SCDLP broth for negative control.

$S_u$ : the average of the common logarithm of the infectivity titer of virus recovered from three untreated test specimens;

$S_t$ : the average of the common logarithm of the infectivity titer of virus recovered from three test specimens.

#### d. Test

Raw data for antiviral activity of Vestatis HS 360 COATING – 6% NPS FAST surface and reference surfaces against Human coronavirus SARS-CoV2 under test conditions (25°C, 12, 24 and 36 hours, 90% RH) are presented in appendices.

Results have been determined by visual reading of cytopathic effects (CPE) and quantified by TCID<sub>50</sub> technique on VERO E6 cells.

Surface	Cytotoxicity (log <sub>10</sub> TCID <sub>50</sub> )	Specimen	U <sub>0</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	U <sub>t12h</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	U <sub>t24h</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	U <sub>t36h</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )
<b>Glass plate</b>	1.5	L1	5.4	4.7	4.2	3.7
		L2	5.4	4.6	4.4	3.5
		L3	5.6	4.5	3.9	4.0
		<i>Average</i>	<b>5.5</b>	<b>4.6</b>	<b>4.2</b>	<b>3.7</b>

Surface	Cytotoxicity (log <sub>10</sub> TCID <sub>50</sub> )	Specimen	A <sub>0</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	A <sub>12</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	A <sub>24</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	A <sub>t24h</sub> (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )
<b>Vestatis HS 360 COATING – 6% NPS FAST</b>	1.5	L1	5.1	1.5	1.5	1.5
		L2	5.2	1.5	1.5	1.5
		L3	5.0	1.5	1.5	1.5
		<i>Average</i>	<b>5.1</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>
		R (log <sub>10</sub> TCID <sub>50/cm<sup>2</sup></sub> )	/	<b>3.1</b>	<b>2.7</b>	<b>2.2</b>

R is the antiviral activity

U<sub>0</sub> is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three untreated test specimens immediately after inoculation

U<sub>t</sub> is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three untreated test specimens

A<sub>0</sub> is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three treated test specimens immediately after inoculation

A<sub>t</sub> is the average of the common logarithm of the number of TCID<sub>50</sub> recovered from three treated test specimens.

The logarithmic value of the number of TCID<sub>50</sub> recovered immediately after inoculation from untreated test specimen (U<sub>0</sub>) satisfies the requirement below: (L<sub>max</sub> – L<sub>min</sub>) / (L<sub>mean</sub>) ≤ 0.2.

The number of virus recovered from each untreated test specimen after contacting for 24 h shall not be less than 6.2 × 10<sup>2</sup> TCID<sub>50/cm<sup>2</sup></sub>.

## V. ANNEXES

### V.1 Materials and reagents

- Cell line and viral strain

	Name	Number of passages	Batch number	Quantification
Cell line	VERO E6 (ATCC CCL-81)	12	ATCC CCL-81-2	n.a.
Viral strain	Coronavirus SARS-CoV-2 BetaCoV/France/IDF0571/2020 (Accession ID = EPI_ISL_411218)	n.a.	052021SARS2-1	$5.62 \cdot 10^6$ TCID <sub>50</sub> /mL

- Reagents

	Name	Batch number	Expiration Date	Preparation
Medium	DMEM	0000939603	14/10/2022	n.a.
Antibiotics	Penicillin and streptomycin	2240838	30/07/2021	1%
L-Glutamine	L-GLU	2248755	03/2022	1%
SVF	SVF	S73136	04/09/2024	5 % (culture) 2% (infection)

## V.2 Raw data: human coronavirus SARS-CoV2

Product	Contact time (h)	Dilutions (-log)							
		P	1	2	3	4	5	6	7
<b>Cytotoxicity</b>									
Glass plate	12	44444444	0	0	0	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	12	44444444	0	0	0	0	0	0	0
Glass plate	24	44444444	0	0	0	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	24	44444444	0	0	0	0	0	0	0
Glass plate	36	44444444	0	0	0	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	36	44444444	0	0	0	0	0	0	0
<b>Cell susceptibility</b>									
SCDLP	/	44444444	44444444	44444444	44444444	44444444	20324444	0	0
Glass plate	/	44444444	44444444	44444444	44444444	44444444	11111112	0	0
Vestatis HS 360 COATING – 6% NPS FAST	/	44444444	44444444	44444444	44444444	44444444	23241210	0	0
<b>A0/U0</b>									
Glass plate	/	44444444	44444444	44444444	44444444	11111110	0	0	0
	0	44444444	44444444	44444444	44444444	01203333	0	0	0
	0	44444444	44444444	44444444	44444444	22221111	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	0	44444444	44444444	44444444	44444444	10011002	0	0	0
	0	44444444	44444444	44444444	44444444	02302220	0	0	0
	0	44444444	44444444	44444444	44444444	00110100	0	0	0
<b>Suppression of product's activity</b>									
SCDLP	/	44444444	44444444	44444444	44444444	10230200	0	0	0
	/	44444444	44444444	44444444	44444444	14020000	0	0	0
	/	44444444	44444444	44444444	44444444	02030001	0	0	0
Glass plate	/	44444444	44444444	44444444	44444444	00010100	0	0	0
	/	44444444	44444444	44444444	44444444	203000010	0	0	0
	/	44444444	44444444	44444444	44444444	10000000	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	/	44444444	44444444	44444444	44444444	01020300	0	0	0
	/	44444444	44444444	44444444	44444444	02203300	0	0	0
	/	44444444	44444444	44444444	44444444	10000001	0	0	0
<b>TEST</b>									
Glass plate	12	44444444	44444444	44444444	11111111	00100000	0	0	0
	12	44444444	44444444	44444444	02021111	00000110	0	0	0
	12	44444444	44444444	44444444	11202220	00000001	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	12	44444444	0	0	0	0	0	0	0
	12	44444444	0	0	0	0	0	0	0
	12	44444444	0	0	0	0	0	0	0

	24	44444444	44444444	44444444	01022001	01000000	0	0	0
Glass plate	24	44444444	44444444	44444444	22023410	0	0	0	0
	24	44444444	44444444	44444444	10110000	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	24	44444444	0	0	0	0	0	0	0
	24	44444444	0	0	0	0	0	0	0
	24	44444444	0	0	0	0	0	0	0
Glass plate	36	44444444	44444444	11110101	00100101	0	0	0	0
	36	44444444	44444444	00110110	011100000	0	0	0	0
	36	44444444	44444444	11111101	10101010	0	0	0	0
Vestatis HS 360 COATING – 6% NPS FAST	36	44444444	0	0	0	0	0	0	0
	36	44444444	0	0	0	0	0	0	0
	36	44444444	0	0	0	0	0	0	0

*Explanations:*

- 1-4: degrees of CPE in 8 cell culture unit (microtiter plate)
- 0: no virus present
- n.a: not applicable
- n.d: not done