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Report N° 1174798A01 v3

EFFICACITE VIRUCIDE SUR DEFROISSEURS DR8135D1

30 September 2020

This report supersedes report 1174798A01 version n°2 which has to be destroyed. The laboratory absolves itself from the use of any previous report.

For the attention of **Cédric METAY**
GROUPE SEB - CALOR

Quotation 2020/62562 (DSP 767540)
Reference: TESTS ANTI VRUS COMMANDE N° 9324053626 09.06.2020

Tested product

Designation: DEFROISSEUR ACCESS TEAM DR8135D1
Reference: -
Batch N°: -
Brand: -
ATS reference: 776834

Study followed by Michel LEBREUIL

*The copy of this report is only authorized by unabridged edition
This edition includes 14 pages*

The reported results relate exclusively to the tested samples. The samples will be kept only 2 months from the date of this report. The sample and the information regarding sample have been provided by the client. All information related to the sample are under liability of the client and have not been checked by the Eurofins ATS Company

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SPONSOR	Eurofins ATS France						
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	Actimart -1140 Rue Ampere						
	F-13851 Aix –en-Provence Cedex 3						
	FRANCE						
TEST METHOD	Antiviral activity on DEFROISSEUR ACCES STEAM DR8135D1 according to Sponsor's indications						
TEST ITEM							
PRODUCT NAME (*)	DEFROISSEUR ACCES STEAM DR8135D1						
MATRIX OF THE PRODUCT (*)	N.A.						
BATCH (*)	N.A.	ATS CODE	776834				
MANUFACTURING DATE (*)	N.A.	EXPIRY DATE (*)	N.A.				
MANUFACTURER	ROWENTA						
ACTIVE INGREDIENT (*)	N.A.						
MATERIAL ITEM ALIQUOT	LV-MAT-IJE2-20-204-0F90:a						
PARCEL REGISTRATION N.	IP-LV-2020199-AMD	RECEIVING DATE	17-July-2020				
STORAGE CONDITIONS (*)	Room temperature (20°C± 5°C)						
(*) INFORMATION PROVIDED BY THE SPONSOR							
ANALYSIS STARTING DATE	18-August-2020	ANALYSIS ENDING DATE	26-August-2020				
EXPERIMENTAL CONDITIONS							
SUMMARY	<p>This study has been conducted in order to evaluate the antiviral activity (expressed in LogTCID₅₀ reduction value) of DEFROISSEUR ACCES STEAM DR8135D1 on contaminated fabric, compared to virus control (recovery after drying), following the Sponsor's ironing procedure and according to Sponsor's requirements.</p> <p>For this purpose, the following viruses have been used:</p> <table border="0"> <tr> <td><i>Murine norovirus (MNV, strain S99)</i></td> <td>RVB-651</td> </tr> <tr> <td><i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems</i></td> <td>RVB-0020</td> </tr> </table> <p>For each virus, 9 unfinished 100% cotton swatches (2x5 cm each) have been inoculated with 0,05 ml of viral suspension (as per EN 16777:2018 / UNI EN 16777:2019).</p>			<i>Murine norovirus (MNV, strain S99)</i>	RVB-651	<i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems</i>	RVB-0020
<i>Murine norovirus (MNV, strain S99)</i>	RVB-651						
<i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems</i>	RVB-0020						

	<ul style="list-style-type: none"> - 3 swatches have been inoculated and immediately the viable viral particles have been recovered in order to verify the recovery method from swatches. - 3 swatches have been inoculated and left in an opened petri dish on surface of a Biohazard hood until visible dry; then, immediately after drying, the viable viral particles have been recovered in order to verify the recovery after drying from swatches. - 3 swatches have been inoculated and left in an opened petri dish on surface of a Biohazard hood until visible dry. Then, they have been put in vertical position, treated with 4 applications of continuous steam (2 forwards and 2 backwards), spaced by 1 second (without steam), at 1 cm/sec remaining in contact with the cotton swatches, according to the Sponsor requirements. Waiting time between each carrier: 1 minute without steam. - The steam generating device was set to "Delicate", that is the setting when the appliance is turned on. 		
TEST TEMPERATURE	"Delicate" on the device (as per Sponsor instructions)		
PRODUCT APPEARANCE	Steam iron		
EXPOSURE SPEED	1 cm/sec		
CARRIERS	2 cm × 5 cm cotton fabric (swatches)		
VIRUS RECOVERY	Iced culture Medium		
INTERFERING SUBSTANCE	No interfering substance		
INCUBATION TEMPERATURE	37°C ± 1°C (with 5% CO ₂)		
TEST VIRUSES	<i>Murine norovirus (MNV, strain S99), RVB-651</i> <i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems, RVB-0020</i>		
CELL LINES	<i>RAW 264.7, ATCC TIB-71</i> <i>PT, CCLV-RIE 11</i>		
		Log reductions	% reduction
RESULTS	<i>Murine norovirus, MNV strain S99</i>	2.62 ± 0.104	99.76%
	<i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems</i>	≥3.06 ± 0.040	>99.9%
	See Addendum N.1		
CONCLUSIONS	<p>DEFROISSEUR ACCES STEAM DR8135D1 CAUSES a reduction of 2.62 ± 0.104 Log (99.76%) against <i>Murine norovirus, MNV strain S99 RVB-651</i> with 4 applications of continuous steam (2 forwards and 2 backwards), spaced by 1 second (without steam), at 1 cm/sec remaining in contact with the cotton swatches, compared to virus control (recovery after drying). Nevertheless, some residual virus is detected.</p> <p>DEFROISSEUR ACCES STEAM DR8135D1 CAUSES a reduction ≥3.06 ± 0.040 Log (>99.9%) against <i>Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020</i> with 4 applications of continuous steam (2 forwards and 2 backwards), spaced by 1 second (without steam), at 1 cm/sec remaining in contact with the cotton swatches, compared to virus control (recovery after drying).</p>		

	<p>The vapor temperature on the treated surface and the net exposure time are typically the critical parameters of the process. The higher these values, the greater the effectiveness of the process.</p> <p>Indeed, <i>Murine norovirus</i> is a non-enveloped virus, which makes it more resistant to disinfection than <i>Betacoronavirus 1</i>, which is an enveloped virus. The envelope is a structure that has the main function of facilitating the infection of the virus to the host, but which nevertheless makes the virus more sensitive to chemical agents.</p>
ADDENDA	<p>N. 1: RAW DATA ELABORATION (5 PAGES) ON BETACORONAVIRUS N. 2: RAW DATA ELABORATION (5 PAGES) ON MURINE NOROVIRUS</p>

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Data inizio (Started on): 19/08/20 | Data fine test (Test finished on): 24/08/20
 Rapporto No (Report No): STULV20AA3931-1 | ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Titolazione virus (Virus Titration)
Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-	
			1	2	3	4	5	6	7	8		
Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020	B	0	4	4	4	4	4	4	4	0	0	0
	C	0	4	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	4	4	0	0	0	0
	E	0	4	4	4	4	4	4	0	0	0	0
	F	0	4	4	4	4	4	4	0	0	0	0
	G	0	4	4	4	4	4	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	50.0	0.0	0.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **6.00 ± 0.447**

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature): _____ 

Data (Date): 06/09/20

Sigla Approver (Approver signature): _____ 

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Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area — Test method and requirements (phase2/step2)

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Recovery after inoculum from swatches

Dilution in ice-cold medium

Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020

Carrier 1

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	0	0	0	0	0
C	0	4	4	4	3	0	0	0	0	0
D	0	4	4	4	4	0	0	0	0	0
E	0	4	4	4	3	0	0	0	0	0
F	0	4	4	4	4	0	0	0	0	0
G	0	4	4	4	3	0	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: VALID

Log TCID50: 5.80 ± 0.000

Carrier 2

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	0	0	0	0	0
C	0	4	4	4	3	0	0	0	0	0
D	0	4	4	4	0	0	0	0	0	0
E	0	4	4	4	3	0	0	0	0	0
F	0	4	4	4	3	0	0	0	0	0
G	0	4	4	4	4	0	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	83.3	0.0	0.0	0.0	0.0	0.0

Cell destruction: VALID

Log TCID50: 5.63 ± 0.346

Carrier 1

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	3	0	0	0	0
C	0	4	4	4	3	0	0	0	0	0
D	0	4	4	4	4	0	0	0	0	0
E	0	4	4	4	4	0	0	0	0	0
F	0	4	4	4	4	0	0	0	0	0
G	0	4	4	4	3	0	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	100.0	16.7	0.0	0.0	0.0	0.0

Cell destruction: VALID

Log TCID50: 5.97 ± 0.346

Log TCID50 (Average): 5.80 ± 0.200

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature):

Data (Date): 09/09/20


Sigla Approver (Approver signature):

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Rapporto No (Report No): STULV20AA3931-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90.a

Recovery after drying from swatches
Dilution in ice-cold medium
Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020

Carrier 1 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2.3	3.3	4.3	5.3	6.3	7.3	8.3		9.3
No interfering substance	B	0	4	4	4	0	0	0	0	0	0
	C	0	4	4	3	0	0	0	0	0	0
	D	0	4	4	4	0	0	0	0	0	0
	E	0	4	4	4	0	0	0	0	0	0
	F	0	4	4	4	0	0	0	0	0	0
	G	0	4	4	3	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

4.80

±

0.000

Carrier 2 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2.3	3.3	4.3	5.3	6.3	7.3	8.3		9.3
No interfering substance	B	0	4	4	4	0	0	0	0	0	0
	C	0	4	4	3	0	0	0	0	0	0
	D	0	4	4	4	0	0	0	0	0	0
	E	0	4	4	4	0	0	0	0	0	0
	F	0	4	4	4	3	0	0	0	0	0
	G	0	4	4	4	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	16.7	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

4.97

±

0.346

Carrier 1 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-
			2.3	3.3	4.3	5.3	6.3	7.3	8.3	
No interfering substance	B	0	4	4	3	0	0	0	0	0
	C	0	4	4	3	0	0	0	0	0
	D	0	4	4	4	0	0	0	0	0
	E	0	4	4	4	0	0	0	0	0
	F	0	4	4	4	0	0	0	0	0
	G	0	4	4	4	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

4.80

±

0.000

Log TCID50 (Average):

4.86

±

0.141

Data verifica Approver (Approver verification date):

26/08/20

Sigla tecnico (Technician signature):



Data (Date):

09/09/20

Sigla Approver (Approver signature):



Data (Date):

09/09/20

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ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Procedura test (Test procedure)

Dilution in ice-cold medium

Betacoronavirus 1 (Bovine Corona Virus) strain S379 Riems RVB-0020

Carrier 1

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0
Endpoint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: ≤ 1.80 ± 0.000

Carrier 2

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0
Endpoint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: ≤ 1.80 ± 0.000

Carrier 3

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0
Endpoint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: ≤ 1.80 ± 0.000

Log TCID50 (Average): ≤ 1.80 ± 0.000

Reduction (Average): ≥ 3.06 ± 0.040

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature):

Data (Date): 02/09/20


Sigla Approver (Approver signature):

Data (Date): 04/09/20

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Titolazione virus (Virus Titration)
Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-	
			1	2	3	4	5	6	7	8		
Murine norovirus (MNV, strain S99) RVB-651	B	0	4	4	4	4	4	4	0	0	0	0
	C	0	4	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	4	4	0	0	0	0
	E	0	4	4	4	4	4	4	0	0	0	0
	F	0	4	4	4	4	4	4	0	0	0	0
	G	0	4	4	4	4	4	4	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	83.3	0.0	0.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **6.33 ± 0.346**

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature): _____

Data (Date): 04/09/20

Sigla Approver (Approver signature): _____

Data (Date): 04/09/20

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Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area — Test method and requirements (phase2/step2)

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Data fine test (Test finished on): 24/08/20

Rapporto No (Report No): STULV20AA3931-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Recovery after inoculum from swatches
Dilution in ice-cold medium
Murine norovirus (MNV, strain S99) RVB-651

Carrier 1

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	0	0	0	0	0
C	0	4	4	4	4	3	0	0	0	0
D	0	4	4	4	4	3	0	0	0	0
E	0	4	4	4	4	0	0	0	0	0
F	0	4	4	4	4	0	0	0	0	0
G	0	4	4	4	4	0	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	100.0	33.3	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: 6.13 ± 0.400

Carrier 2

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	0	0	0	0	0
C	0	4	4	4	4	0	0	0	0	0
D	0	4	4	4	4	0	0	0	0	0
E	0	4	4	4	4	4	0	0	0	0
F	0	4	4	4	4	4	0	0	0	0
G	0	4	4	4	4	0	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	100.0	33.3	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: 6.13 ± 0.400

Carrier 1

Condizioni testate (Test condition)

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	4	4	4	0	0	0	0
C	0	4	4	4	4	4	0	0	0	0
D	0	4	4	4	4	0	0	0	0	0
E	0	4	4	4	4	0	0	0	0	0
F	0	4	4	4	4	4	0	0	0	0
G	0	4	4	4	4	4	0	0	0	0
Endpoint	0.0	100.0	100.0	100.0	100.0	66.7	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: 6.47 ± 0.400

Log TCID50 (Average): 6.24 ± 0.283

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature):

Data (Date): 02/09/20


Sigla Approver (Approver signature):

Data (Date): 04/09/20

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Data inizio (Started on): 21/08/20

Data fine test (Test finished on):

Rapporto No (Report No): STULV20AA3931-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Recovery after drying from swatches
 Dilution in ice-cold medium
 Murine norovirus (MNV, strain S99) RVB-651

Carrier 1 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
No interfering substance	B	0	4	4	4	4	0	0	0	0	0
	C	0	4	4	4	4	0	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
	E	0	4	4	4	4	0	0	0	0	0
	F	0	4	4	4	4	4	0	0	0	0
	G	0	4	4	4	4	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	33.3	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

6.13

±

0.400

Carrier 2 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
No interfering substance	B	0	4	4	4	4	0	0	0	0	0
	C	0	4	4	4	4	0	0	0	0	0
	D	0	4	4	4	4	3	0	0	0	0
	E	0	4	4	4	4	0	0	0	0	0
	F	0	4	4	4	4	4	0	0	0	0
	G	0	4	4	4	4	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	33.3	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

6.13

±

0.400

Carrier 1 Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
No interfering substance	B	0	4	4	4	4	0	0	0	0	0
	C	0	4	4	4	4	3	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
	E	0	4	4	4	4	0	0	0	0	0
	F	0	4	4	4	4	0	0	0	0	0
	G	0	4	4	4	4	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	16.7	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

5.97

±

0.346

Log TCID50 (Average):

6.08

±

0.271

Data verifica Approver (Approver verification date):

26/08/20

Sigla tecnico (Technician signature):



Data (Date): 06/09/20

Sigla Approver (Approver signature):



Data (Date): 06/09/20

Revision: 5	Local reference: Mod. PS/MIC/091.E_Modified
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Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area — Test method and requirements (phase2/step2)

Norma (Standard): EN16777:2018/ UNI EN16777:2019

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Data inizio (Started on): 21/08/20

Data fine test (Test finished on): 24/08/20

Rapporto No (Report No): STULV20AA3931-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Procedura test (Test procedure)

Dilution in ice-cold medium

Murine norovirus (MNV, strain S99) RVB-651

Carrier 1

Condizioni testate (Test condition)

DEFROISSEUR ACCES STEAM DR8135D1

N.A.

No interfering substance

1 cm/sec

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	0	0	0	0	0	0	0
C	0	4	0	0	0	0	0	0	0	0
D	0	4	0	0	0	0	0	0	0	0
E	0	4	0	0	0	0	0	0	0	0
F	0	4	4	0	0	0	0	0	0	0
G	0	4	0	0	0	0	0	0	0	0
Endpoint	0.0	100.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

3.13

±

0.400

Carrier 2

Condizioni testate (Test condition)

DEFROISSEUR ACCES STEAM DR8135D1

N.A.

No interfering substance

1 cm/sec

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	0	0	0	0	0	0	0	0
C	0	4	4	0	0	0	0	0	0	0
D	0	4	4	0	0	0	0	0	0	0
E	0	4	4	0	0	0	0	0	0	0
F	0	4	4	0	0	0	0	0	0	0
G	0	4	4	0	0	0	0	0	0	0
Endpoint	0.0	100.0	83.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

3.63

±

0.346

Carrier 3

Condizioni testate (Test condition)

DEFROISSEUR ACCES STEAM DR8135D1

N.A.

No interfering substance

1 cm/sec

Replica	K-	Diluizione virus (Virus dilution)								K-
		2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	
B	0	4	4	0	0	0	0	0	0	0
C	0	4	4	0	0	0	0	0	0	0
D	0	4	4	0	0	0	0	0	0	0
E	0	4	4	0	0	0	0	0	0	0
F	0	4	0	0	0	0	0	0	0	0
G	0	4	4	0	0	0	0	0	0	0
Endpoint	0.0	100.0	83.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

3.63

±

0.346

Log TCID50 (Average):

3.46

±

0.258

Reduction (Average):

2.62

±

0.104

Data verifica Approver (Approver verification date): 26/08/20

Sigla tecnico (Technician signature):

[Signature]

Data (Date): 04/09/20

Sigla Approver (Approver signature):

[Signature]

Data (Date): 04/09/20

Revision: 5

Local reference: Mod. PS/MIC/091.E_Modified

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Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area — Test method and requirements (phase2/step2)

Norma (Standard): EN16777:2018/ UNI EN16777:2019

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Data inizio (Started on): 21/08/20 Data fine test (Test finished on): 24/08/20
 Rapporto No (Report No): STULV20AA3931-1 ID Campione (ID sample): LV-MAT-IJE2-20-204-0F90:a

Result summary

Attività virucida (Virucidal activity)
Murine norovirus (MNV, strain S99) RVB-651

Prodotto (Product)	DEFROISSEUR ACCES STEAM DR8135D1				
Sostanza interferente (Interfering substance)	No interfering substance				
Velocità (speed)	1 cm/sec				
Concentrazione (Concentration)	Riduzione Log (Log Reduction)				
N.A.	2.62 ± 0.104				
	2.62		±	0.10	

Data verifica Approver (Approver verification date): 26/08/20

Sigla Approver (Approver signature): _____

Data (Date): 24/09/20

Revision: 5	Local reference: Mod. PS/MIC/091.E_Modified
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