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GROUPE SEB - CALOR ZI Monplaisir, Rue du champ de courses 38780 Pont Evêque FRANCE

## Report N° 1172125A01 v3

## **EFFICACITE VIRUCIDE SUR DEFROISSEURS QR2021D1**

30 September 2020

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For the attention of Cédric METAY GROUPE SEB - CALOR

Quotation 2020/62562 (DSP 765148)

Reference: TESTS ANTI VRUS COMMANDE N° 9324053626 09.06.2020

Tested product

Designation: QR 2021 IXEO POWER

Reference: -Batch N°: -Brand: -

ATS reference: 775023

A Study followed by Michel LEBREUILÁ

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SPONSOR	Actimart -1140 Rue A	mpere									
	F-13851 Aix –en-Prov	rence Cedex 3									
	FRANCE										
TEST METHOD	Antiviral activity on QF	R 2021 IXEO POWER accordir	ng to Sponsor's indications								
TEST ITEM											
PRODUCT NAME (*)	QR 2021 IXEO POW	<b>ER</b>									
MATRIX OF THE PRODUCT (*)	N.A.										
Ватсн (*)	N.A.	ATS CODE	775023								
MANUFACTURING DATE (*)	N.A.	EXPIRY DATE (*)	N.A.								
MANUFACTURER	ROWENTA										
ACTIVE INGREDIENT (*)	N.A.										
MATERIAL ITEM ALIQUOT	LV-MAT-IJE2-20-204-	LV-MAT-IJE2-20-204-0F89:a									
PARCEL REGISTRATION N.	IP-LV-2020196-AKT	RECEIVING DATE	14-July-2020								
STORAGE CONDITIONS (*)	Room temperature (20	0°C± 5°C)	***************************************								
(*) INFORMATION PROVIDED BY THE SPO	NSOR										
ANALYSIS STARTING DATE	20-August-2020	ANALYSIS ENDING DATE	26-August-2020								
EXPERIMENTAL CONDITIONS											
SUMMARY	(expressed in LogT contaminated fabric, the Sponsor's ironing For this purpose, the Murine norovirus (MN	CID <sub>50</sub> reduction value) of 0 compared to virus control (reprocedure and according to 5 following virus has been used <i>V, strain</i> S99) RVB-651	l:								
	inoculated with 0,05 16777:2019).	For this 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).  - 3 swatches have been inoculated and immediately the viable viral particles have been recovered in order to verify the recovery method from swatches.									



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	viral particles have been from swatches.  - 3 swatches have been inc a Biohazard hood until position, treated with 6 a backwards), spaced by 2 contact with the cotton. Waiting time between each	<ul> <li>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 horizontal position, treated with 6 applications of continuous steam (3 forwards and backwards), spaced by 2 seconds (without steam), at 10 cm/sec remaining it contact with the cotton swatches, according to the Sponsor requirements. Waiting time between each carrier: 1 minute without steam.</li> <li>The steam generating device was set to "Normal", that is the setting when the appliance is turned on.</li> </ul>									
TEST TEMPERATURE	"Normal" on the device (as p	er Sponsor instructions)									
PRODUCT APPEARANCE	Steam iron	Steam iron									
EXPOSURE SPEED	10 cm/sec										
CARRIERS	2 cm × 5 cm cotton fabric (sw	atches)									
Virus Recovery	Iced culture Medium	Iced culture Medium									
INTERFERING SUBSTANCE	No interfering substance										
INCUBATION TEMPERATURE	37°C ± 1°C (with 5% CO <sub>2</sub> )										
TEST VIRUS	Murine norovirus (MNV, strain	n S99), RVB-651									
CELL LINES	RAW 264.7, ATCC TIB-71										
		Log reductions	% reduction								
RESULTS	Murine norovirus, MNV strain S99	≥4.33 ±0.080	>99.99%								
		See Addendum N.1									
Conclusions	QR 2021 IXEO POWER C.  Murine norovirus, MNV stratesteam (3 forwards and 3 bat 10 cm/sec remaining in cocontrol (recovery after drying)  The vapor temperature on typically the critical parameter the effectiveness of the procedular morovirus is a non-edisinfection. The envelope is the infection of the virus to	in S99 RVB-651 with 6 a ckwards), spaced by 2 sentact with the cotton swarth the treated surface and the softhe process. The highers.  Enveloped virus, which mass a structure that has the market in the structure that has the st	pplications of continuous conds (without steam), at tches, compared to virus are net exposure time are are these values, the greater takes it more resistant to nain function of facilitating								



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ADDENDUM	N. 1: Raw Data Elaboration (5 PAGES)	

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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):

STULV20AA3930-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F89:a

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

	Replica	K-	Diluizione virus (Virus dilution)								К-
Condizioni testate (Test condition)	Treplica	1/-	1	2	3	4	5	6	7	8	N-
	В	0	4	4	4	4	4	4	0	0	0
Murine norovirus (MNV, strain S99) RVB-651	С	0	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	4	4	0	0	0
widthe horovirus (wilvy, strain 399) KVB-031	E	0	4	4	4	4	4	4	0	0	0
	F	0	4	4	4	4	4	4	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	100.0	66.7	0.0	0.0	0.0

Cell destruction:

6.17

0.400

Log TCID50: ±

Data verifica Approver (Approver verification date ): 26/08/20 Sigla tecnico (Technician signature): Data (Date): 000 20 Sigla Approver (Approver 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):

STULV20AA3930-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F89: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)								
	replica	17-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
	В	0	4	4	4	4	0	0	0	0	0
	С	0	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
No interfering substance	E	0	4	4	4	4	0	0	0	0	0
No interiering substance	F	0	4	4	4	4	4	0	0	0	0
0 min	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

6.30

± 0.400

Carrier 2	Replica	K-	Diluizione virus (Virus dilution)								K-
Condizioni testate (Test condition)	rteplica	IX-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
	В	0	4	4	4	4	0	0	0	0	0
± + +	С	0	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
No interfering substance	E	0	4	4	4	4	4	0	0	0	0
No interfering substance	F	0	4	4	4	4	0	0	0	0	0
0 min	G	0	4	4	4	4	4	0	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	50.0	0.0	0.0	0.0	0.0

Cell destruction: Log TCID50: VALID

1

0.447

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

Cell destruction:

Log TCID50: 5.97

VALID

5.97 ±

Log TCID50 (Average):

6.13

± 0.346 ± 0.283

Data verifica Approver (Approver verification date ):

26/08/20

Sigla tecnico (Technician signature):

Sigla Approver (Approver signature):

A

Data (Date):

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)

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

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Data inizio (Started on):

21/08/20

Data fine test (Test finished on):

Rapporto No (Report No):

STULV20AA3930-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F89: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)								
	Replica	rx-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
	В	0	4	4	4	4	0	0	0	0	0
	С	0	4	4	4	4	0	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
No interfering substance	E	0	4	4	4	4	0	0	0	0	0
No interfering substance	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	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

5.80

0.000 ±

Carrier 2	Replica	K-	Diluizione virus (Virus dilution)								К-
Condizioni testate (Test condition)	Treplica	11.	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	r\-
V	В	0	4	4	4	4	0	0	0	0	0
	С	0	4	4	4	4	0	0	0	0	0
	D	0	4	4	4	4	4	0	0	0	0
No interfering substance	E	0	4	4	4	4	4	0	0	0	0
No interfering substance	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	50.0	0.0	0.0	0.0	0.0

Cell destruction: Log TCID50: VALID

6.30

0.447

Carrier 1	Replica	K-	Diluizione virus (Virus dilution)								
Condizioni testate (Test condition)	rteplica	17-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
	В	0	4	4	4	4	0	0	0	0	0
	С	0	4	4	4	4	4	0	0	0	0
	D	0	4	4	4	4	0	0	0	0	0
No interfering substance	E	0	4	4	4	4	4	0	0	0	0
No interfering substance	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	50.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

6.30

0.447

Log TCID50 (Average): 6.13

0.258 ±

	Data verifica Approver (A	pprover verification date ): 26/08	3/20
Sigla tecnico (Technician signature):	(D)	Data (Date):	258
Sigla Approver (Approver signature):	<u>A</u>	Data (Date): 04 09	1/20

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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)

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):

STULV20AA3930-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F89:a

Procedura test (Test procedure)
Dilution in ice-cold medium
Murine province (MNV strain S99)

Sigla Approver (Approver signature):

Murine norovirus (MNV, strain S99) RVB-651

Carrier 1	Replica	K-			Diluizio	ne virus	(Virus	dilution)			1/
Condizioni testate (Test condition)	Treplica	IX-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
QR 2021 IXEO POWER	В	0	0	0	0	0	0	0	0	0	0
QR 2021 IXLO FOWER	С	0	0	0	0	0	0	0	0	0	0
N.A.	D	0	0	0	0	0	0	0	0	0	0
No interfering substance	E	0	0	0	0	0	0	0	0	0	0
No interfering substance	F	0	0	0	0	0	0	0	0	0	0
10 cm/sec	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	Replica	K-			Diluizio	ne virus	(Virus	dilution)			V
Condizioni testate (Test condition)	rteplica	17-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
QR 2021 IXEO POWER	В	0	0	0	0	0	0	0	0	0	0
QR 2021 IXEO I OWER	С	0	0	0	0	0	0	0	0	0	0
N.A.	D	0	0	0	0	0	0	0	0	0	0
No interfering substance	E	0	0	0	0	0	0	0	0	0	0
No interioring substance	F	0	0	0	0	0	0	0	0	0	0
10 cm/sec	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

Data (Date): 04 09 20

Carrier 3	Replica	K-			Diluizio	ne virus	(Virus	dilution)			V
Condizioni testate (Test condition)	Treplica	17-	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3	K-
QR 2021 IXEO POWER	В	0	0	0	0	0	0	0	0	0	0
QR 2021 IXEO FOWER	С	0	0	0	0	0	0	0	0	0	0
N.A.	D	0	0	0	0	0	0	0	0	0	0
No interfering substance	E	0	0	0	0	0	0	0	0	0	0
No interfering substance	F	0	0	0	0	0	0	0	0	0	0
10 cm/sec	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):
 ≥
 4.33
 ±
 0.080

Data verifica Approver (	(Approver verification date ):	26/08/20
<u> </u>	Data (Date):	04002
	Data verifica Approver	Data verifica Approver (Approver verification date ):  Data (Date):

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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):

STULV20AA3930-1

ID Campione (ID sample): LV-MAT-IJE2-20-204-0F89:a

Result summary

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

Prodotto (Product)		QR 2021 IXEO POWER					
Sostanza interferente (Interfering substance)	No interfering substance						
Velocità (speed)	10 cm/sec						
Concentrazione (Concentration)	Riduzione Log (Log Reduction)						
N.A.	≥ 4.33 ± 0.08						
	2	4.33		±	0.08		

Data verifica Approver (Approver verification date ):

26/08/20

Sigla Approver (Approver signature):

A

Data (Date): 04 09 20

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