

SPONSOR	CHIMIVER PANSERI S.P.A.		
	VIA BERGAMO, 1401		
	24030, PONTIDA (BG)		
	ITALY		
TEST METHOD	EN 14476:2013+A2:2019 / UNI EN 14476:2019 - Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area - Test method and requirements (Phase 2/Step 1).		
TEST ITEM			
PRODUCT NAME (*)	VELUREX Multi Gen		
MATRIX OF THE PRODUCT (*)	Biocide and Antimicrobials - Detergent / Household product		
BATCH (*)	04/05/20	CODE (*)	VMLG000X
MANUFACTURING DATE	Not provided	EXPIRY DATE (*)	May-2021
MANUFACTURER	Chimiver Panseri S.p.A.		
ACTIVE INGREDIENT	Not provided		
MATERIAL ITEM ALIQUOT	LV-MAT-FOV7-20-127-0952:a		
PARCEL REGISTRATION N.	IP-LV-2020126-AJP	RECEIVING DATE	05-May-2020
STORAGE CONDITIONS (*)	Room temperature (20°C ± 5°C)		
(*) INFORMATION PROVIDED BY THE SPONSOR			
ANALYSIS STARTING DATE	26-May-2020	ANALYSIS ENDING DATE	04-June-2020
EXPERIMENTAL CONDITIONS			
TEST TEMPERATURE	20°C ± 1°C		
CONCENTRATIONS	80% (Neat) - 25% - 1% The item dilutions of 25% and 1% have been prepared 1.25 times higher than the final tested concentrations, using water for injections. The dilutions were clear and homogeneous. Test item dilution was stable throughout test (no precipitation in the test mixture).		
PRODUCT APPEARANCE	Pink transparent liquid		
CONTACT TIME	5 minutes		
INACTIVATION OF THE PRODUCT	Filtration with S400 HR columns MicroSpin™ (and iced culture Medium).		
INTERFERING SUBSTANCE	Bovine albumin solution (BSA) plus sheep erythrocytes with a final concentration of 0.3% (simulating dirty conditions for the medical area)		
INCUBATION TEMPERATURE	37°C ± 1°C (with 5% CO ₂)		
TEST VIRUSES	<i>Adenovirus Type 5</i> (ATCC VR-5) <i>Murine norovirus, strain S99</i> (RVB-651)		
CELL LINES	<i>HeLa</i> (ATCC CCL-2) <i>RAW 264.7</i> (ATCC TIB-71)		



BioPharma
Product Testing



LAB N° 0032 L


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RESULTS	See Addendum N.1
CONCLUSIONS	<p>VIRUCIDAL with limited spectrum at the test item concentration of 25% after 5 minutes of contact time, in the adopted test conditions, using bovine albumin solution plus sheep erythrocytes at final concentration of 0.3% (simulating dirty conditions for the medical area)</p> <p>A residual cytotoxicity was shown on both cell lines with test item concentration of 80% and the virus suspension titre was not sufficient to at least enable a titre reduction of 4 Log, but no virus detections were observed at the contact time. Meanwhile at test concentration of 25%, a lower residual cytotoxicity was detected and a reduction of 4 Log was observed; so the method was verified.</p>
ADDENDUM	N. 1: RAW DATA ELABORATION (22 PAGES)

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Reviewed and electronically signed for Technical Supervisor Approval by
Elisa Anna Maccagni, Employee
for Eurofins Biolab Srl, on 09-Jun-2020 10:22:30 UTC+02:00

	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 1 / 22
	Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 01/06/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Citotossicità (Cytotoxicity)
Hela ATCC CCL-2

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 80.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	4	4	4	1	0	0	0	0	0
	C	0	4	4	4	1	0	0	0	0	0
	D	0	4	4	4	1	0	0	0	0	0
	E	0	4	4	4	1	0	0	0	0	0
	F	0	4	4	4	1	0	0	0	0	0
	G	0	4	4	4	1	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: **4.50**

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 25.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	4	4	2	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	2	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: **3.50**


Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 1.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	4	2	0	0	0	0	0	0	0
	C	0	4	2	0	0	0	0	0	0	0
	D	0	4	2	0	0	0	0	0	0	0
	E	0	4	2	0	0	0	0	0	0	0
	F	0	4	2	0	0	0	0	0	0	0
	G	0	4	2	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

 Cell destruction: **VALID**
 Log TCID50: **2.50**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): BT 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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Citotossicità dopo filtrazione (Cytotoxicity after filtration)
Hela ATCC CCL-2

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 80.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	4	4	2	0	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0	0
	G	0	4	4	2	0	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	0.0

 Cell destruction: **VALID**
 Log TCID50: **3.50**

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 25.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	4	4	0	0	0	0	0	0	0	0
	C	0	4	4	0	0	0	0	0	0	0	0
	D	0	4	4	0	0	0	0	0	0	0	0
	E	0	4	4	0	0	0	0	0	0	0	0
	F	0	4	4	0	0	0	0	0	0	0	0
	G	0	4	4	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

 Cell destruction: **VALID**
 Log TCID50: **2.50**


Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 1.0% Hela ATCC CCL-2 BSA + erythrocytes 0.3% final concentration	B	0	3	0	0	0	0	0	0	0	0	0
	C	0	3	0	0	0	0	0	0	0	0	0
	D	0	3	0	0	0	0	0	0	0	0	0
	E	0	3	0	0	0	0	0	0	0	0	0
	F	0	3	0	0	0	0	0	0	0	0	0
	G	0	3	0	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

 Cell destruction: **VALID**
 Log TCID50: **1.50**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): EF 04/06/20

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Adenovirus Type 5 ATCC VR-5**Titolazione virus (Virus Titration)**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Adenovirus Type 5 ATCC VR-5	B	0	4	4	4	3	3	2	2	0	0
	C	0	4	4	4	3	3	2	2	0	0
	D	0	4	4	4	3	3	2	2	1	0
	E	0	4	4	4	3	3	2	2	0	0
	F	0	4	4	4	3	3	2	2	0	0
	G	0	4	4	4	3	3	2	2	1	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	33.3	0.0

Cell destruction: **VALID**
 Log TCID50: **7.83** ± **0.400**

Titolazione virale dopo filtrazione (Virus Titration after filtration)


Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Adenovirus Type 5 ATCC VR-5	B	0	4	4	4	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **7.50** ± **0.000**
 Reduction: **0.33** **VALID**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): BT 04/06/20

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Controllo sensibilità al virus (Control of virus sensitivity)
Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
PBS	B	0	4	4	4	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **7.50 ± 0.000**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	0	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	2	0	0	0
	F	0	4	4	4	3	3	2	0	0	0
	G	0	4	4	4	3	3	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	33.3	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **6.83 ± 0.400**
 Reduction: **0.67 VALID**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	0	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	83.3	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **7.33 ± 0.346**
 Reduction: **0.17 VALID**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0


Cell destruction: **VALID**
 Log TCID50: **7.50 ± 0.000**
 Reduction: **0.00 VALID**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): AI 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Test di riferimento per l'inattivazione del virus (Reference test for virus inactivation)

Citotossicità riferimento (Reference Cytotoxicity)

Hela ATCC CCL-2

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Formaldeide (Formaldehyde) 0.7% PBS	B	0	4	2	0	0	0	0	0	0	0	0
	C	0	4	2	0	0	0	0	0	0	0	0
	D	0	4	2	0	0	0	0	0	0	0	0
	E	0	4	2	0	0	0	0	0	0	0	0
	F	0	4	2	0	0	0	0	0	0	0	0
	G	0	4	2	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: **VALID**Log TCID50: **2.50**

Virus Control (Virus control)

Hela ATCC CCL-2

Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) PBS 0 min	B	0	4	4	4	3	3	2	0	0	0
	C	0	4	4	4	3	3	2	0	0	0
	D	0	4	4	4	3	3	2	0	0	0
	E	0	4	4	4	3	3	2	0	0	0
	F	0	4	4	4	3	3	2	0	0	0
	G	0	4	4	4	3	3	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0

Cell destruction: **VALID**Log TCID50: **7.50 ± 0.000**


Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) PBS 60 min	B	0	4	4	4	3	2	2	0	0	0
	C	0	4	4	4	3	2	2	0	0	0
	D	0	4	4	4	3	2	2	0	0	0
	E	0	4	4	4	3	2	2	0	0	0
	F	0	4	4	4	3	2	2	0	0	0
	G	0	4	4	4	3	2	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0

Cell destruction: **VALID**Log TCID50: **7.50 ± 0.000**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): EF 04/06/20

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Test di riferimento per l'inattivazione del virus (Reference test for virus inactivation)

Hela ATCC CCL-2

Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Formaldeide (Formaldehyde) 0.7% PBS 30 min	B	0	4	4	0	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	0	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: VALID
 Log TCID50: 4.00 ± 0.447
 Reduction: 3.50 ± 0.224 PASS

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Formaldeide (Formaldehyde) 0.7% PBS 60 min	B	0	4	2	0	0	0	0	0	0	0
	C	0	4	2	0	0	0	0	0	0	0
	D	0	4	2	0	0	0	0	0	0	0
	E	0	4	2	0	0	0	0	0	0	0
	F	0	4	2	0	0	0	0	0	0	0
	G	0	4	2	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


Cell destruction: VALID
 Log TCID50: 3.50 ± 0.000
 Reduction: 4.00 ± 0.000 PASS

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): JF 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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Virus Control (Virus control)
 Hela ATCC CCL-2
 Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	4	3	3	2	0	0	0
	C	0	4	4	4	3	3	2	0	0	0
	D	0	4	4	4	3	3	2	0	0	0
	E	0	4	4	4	3	3	2	0	0	0
	F	0	4	4	4	3	3	2	0	0	0
	G	0	4	4	4	3	3	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: 7.50 ± 0.000

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) BSA + erythrocytes 0.3% final concentration Maximum contact time tested	B	0	4	4	4	3	2	2	0	0	0
	C	0	4	4	4	3	3	2	0	0	0
	D	0	4	4	4	3	2	2	0	0	0
	E	0	4	4	4	3	2	2	0	0	0
	F	0	4	4	4	3	2	2	0	0	0
	G	0	4	4	4	3	2	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0


Cell destruction: **VALID**
 Log TCID50: 7.50 ± 0.000

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): AM 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 8 / 22
	Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 01/06/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Controllo soppressione attività prodotto (Control of suppression of product's activity)

Hela ATCC CCL-2

Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	4	3	2	0	0	0	0
	C	0	4	4	4	3	2	1	0	0	0
	D	0	4	4	4	3	2	0	0	0	0
	E	0	4	4	4	3	2	1	0	0	0
	F	0	4	4	4	3	2	0	0	0	0
	G	0	4	4	4	3	2	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	50.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: 7.00 ± 0.447

Reduction: 0.50 VALID

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	4	3	2	0	0	0	0
	C	0	4	4	4	3	2	2	0	0	0
	D	0	4	4	4	3	2	0	0	0	0
	E	0	4	4	4	3	2	0	0	0	0
	F	0	4	4	4	3	2	2	0	0	0
	G	0	4	4	4	3	2	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	50.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50: 7.00 ± 0.447

Reduction: 0.50 VALID

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	4	3	2	2	0	0	0
	C	0	4	4	4	3	2	0	0	0	0
	D	0	4	4	4	3	2	2	0	0	0
	E	0	4	4	4	3	2	2	0	0	0
	F	0	4	4	4	3	2	0	0	0	0
	G	0	4	4	4	3	2	2	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:

VALID


Log TCID50: 7.17 ± 0.400

Reduction: 0.33 VALID

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): AP 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 9 / 22
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Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 01/06/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Procedura test (Test procedure)
 Hela ATCC CCL-2
 Adenovirus Type 5 ATCC VR-5

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 5 min	B	0	4	4	2	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	2	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: 4.50 ± 0.000
 Log reduction: **3.00** ± **0.000**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-
			2	3	4	5	6	7	8	
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 5 min	B	0	4	4	0	0	0	0	0	0
	C	0	4	4	0	0	0	0	0	0
	D	0	4	4	0	0	0	0	0	0
	E	0	4	4	0	0	0	0	0	0
	F	0	4	4	0	0	0	0	0	0
	G	0	4	4	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: 3.50 ± 0.000
 Log reduction: **4.00** ± **0.000**


Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-
			2	3	4	5	6	7	8	
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 5 min	B	0	4	4	3	3	2	1	0	0
	C	0	4	4	3	3	2	0	0	0
	D	0	4	4	3	3	2	0	0	0
	E	0	4	4	3	3	2	0	0	0
	F	0	4	4	3	3	2	0	0	0
	G	0	4	4	3	3	2	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	16.7	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: 6.67 ± 0.346
 Log reduction: **0.83** ± **0.173**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): BT 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica <i>(Quantitative suspension test for the evaluation of virucidal activity in the medical area)</i>	Pagina (Page) 10 / 22
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Data inizio (Started on): 26/05/20

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Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a


Result summary
Attività virucida (Virucidal activity)
Adenovirus Type 5 ATCC VR-5

Prodotto (Product)	Velurex Multi Gen	
Sostanza interferente (Interfering substance)	BSA + erythrocytes 0.3% final concentration	
Tempo di contatto (Contact time)	5 min	
Concentrazione (Concentration)	Riduzione Log (Log Reduction)	Status
80.0%	3 ± 0	ND
25.0%	4 ± 0	PASS
1.0%	0.83 ± 0.17	FAIL

Data verifica Approver (Approver verification date): 04/06/20

Sigla Approver e data (Approver signature and date): BT 04/06/20

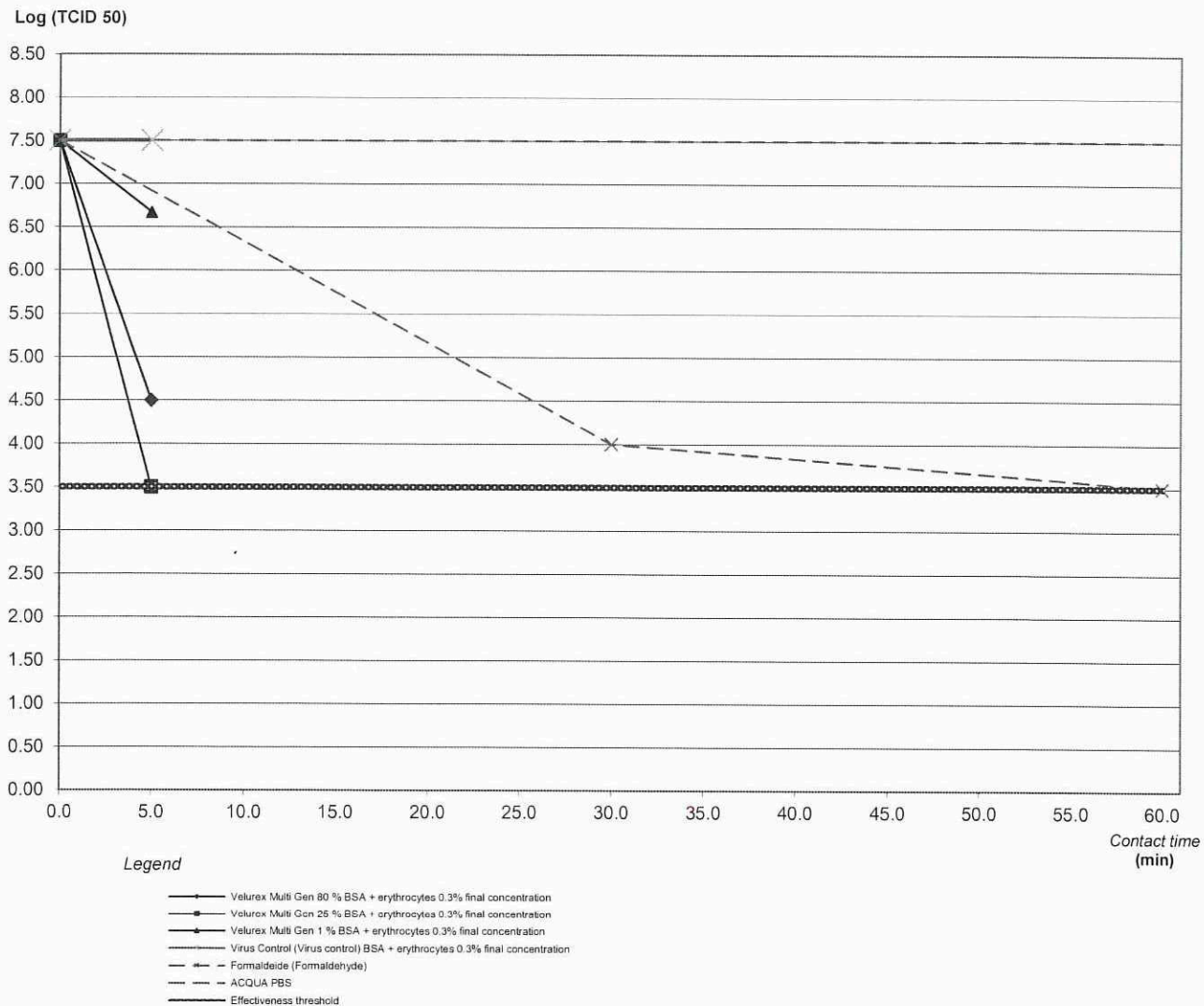
Revision: 1	Local reference: Mod. PS/MIC/112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 11 / 22
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Data inizio (Started on): 26/05/20 Data fine sperimentazione (Experimentation finished on): 01/06/20

Rapporto No (Report No): STULV20AA2313-1 ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a


Presentazione grafica del saggio (Graphic presentation of test)
Adenovirus Type 5 ATCC VR-5



Data verifica Approver (Approver verification date): 04/06/20

Sigla Approver e data (Approver signature and date): 31/06/20

Revision: 1	Local reference: Mod. PS/MIC/112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area) Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 12 / 22 EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Citotossicità (Cytotoxicity)

RAW 264.7 ATCC TIB-71

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 80.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	4	4	4	2	0	0	0	0	0	0
	C	0	4	4	4	2	0	0	0	0	0	0
	D	0	4	4	4	2	0	0	0	0	0	0
	E	0	4	4	4	2	0	0	0	0	0	0
	F	0	4	4	4	2	0	0	0	0	0	0
	G	0	4	4	4	2	0	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	0.0

 Cell destruction: **VALID**
 Log TCID50: **4.50**

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 25.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	4	4	2	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	2	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: **3.50**


Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 1.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	4	3	0	0	0	0	0	0	0
	C	0	4	3	0	0	0	0	0	0	0
	D	0	4	3	0	0	0	0	0	0	0
	E	0	4	3	0	0	0	0	0	0	0
	F	0	4	3	0	0	0	0	0	0	0
	G	0	4	3	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

 Cell destruction: **VALID**
 Log TCID50: **2.50**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): EF 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area) Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 13 / 22 EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20 Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1 ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Citotossicità dopo filtrazione (Cytotoxicity after filtration)
RAW 264.7 ATCC TIB-71

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 80.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	4	4	2	0	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0	0
	G	0	4	4	2	0	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	0.0

Cell destruction: **VALID**
 Log TCID50: **3.50**

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 25.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	4	4	0	0	0	0	0	0	0	0
	C	0	4	4	0	0	0	0	0	0	0	0
	D	0	4	4	0	0	0	0	0	0	0	0
	E	0	4	4	0	0	0	0	0	0	0	0
	F	0	4	4	0	0	0	0	0	0	0	0
	G	0	4	4	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: **VALID**
 Log TCID50: **2.50**

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Velurex Multi Gen 1.0% RAW 264.7 ATCC TIB-71 BSA + erythrocytes 0.3% final concentration	B	0	3	0	0	0	0	0	0	0	0	0
	C	0	3	0	0	0	0	0	0	0	0	0
	D	0	3	0	0	0	0	0	0	0	0	0
	E	0	3	0	0	0	0	0	0	0	0	0
	F	0	3	0	0	0	0	0	0	0	0	0
	G	0	3	0	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


Cell destruction: **VALID**
 Log TCID50: **1.50**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): GF 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 14 / 22
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Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

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

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	3	2	2	1	0
	C	0	4	4	4	4	3	2	2	0	0
	D	0	4	4	4	4	3	2	2	0	0
	E	0	4	4	4	4	3	2	2	0	0
	F	0	4	4	4	4	3	2	2	0	0
	G	0	4	4	4	4	3	2	2	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	16.7	0.0

Cell destruction: VALID
 Log TCID50: 7.67 ± 0.346

Titolazione virale dopo filtrazione (Virus Titration after filtration)


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	3	3	2	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0

Cell destruction: VALID
 Log TCID50: 7.50 ± 0.000
 Reduction: 0.17 VALID

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): FF 04/06/20Sigla Approver e data (Approver signature and date): OT 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area) Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 15 / 22 EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Controllo sensibilità al virus (Control of virus sensitivity)**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	
PBS 60 min	B	0	4	4	4	3	3	1	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	2	1	0	0
	E	0	4	4	4	3	3	1	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	2	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0
Cell destruction: VALID											
Log TCID50: 7.50 ± 0.000											

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	2	1	0	0	0
	C	0	4	4	4	3	2	1	0	0	0
	D	0	4	4	4	3	2	1	0	0	0
	E	0	4	4	4	3	2	1	0	0	0
	F	0	4	4	4	3	2	1	1	0	0
	G	0	4	4	4	3	2	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	16.7	0.0	0.0
Cell destruction: VALID											
Log TCID50: 6.67 ± 0.346											
Reduction: 0.83 VALID											


Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	3	1	1	0	0
	C	0	4	4	4	3	3	1	0	0	0
	D	0	4	4	4	3	3	1	1	0	0
	E	0	4	4	4	3	3	1	0	0	0
	F	0	4	4	4	3	3	1	1	0	0
	G	0	4	4	4	3	3	1	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	66.7	0.0	0.0
Cell destruction: VALID											
Log TCID50: 7.17 ± 0.400											
Reduction: 0.33 VALID											

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)								K-
			1	2	3	4	5	6	7	8	
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 60 min	B	0	4	4	4	3	3	1	1	0	0
	C	0	4	4	4	3	3	2	1	0	0
	D	0	4	4	4	3	3	1	1	0	0
	E	0	4	4	4	3	3	2	1	0	0
	F	0	4	4	4	3	3	2	1	0	0
	G	0	4	4	4	3	3	1	1	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0
Cell destruction: VALID											
Log TCID50: 7.50 ± 0.000											
Reduction: 0.00 VALID											

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): GI 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area) Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 16 / 22 EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Test di riferimento per l'inattivazione del virus (Reference test for virus inactivation)

Citotossicità riferimento (Reference Cytotoxicity)
RAW 264.7 ATCC TIB-71

Condizioni testate (Test condition)	Replica	K-	Diluizione sostanza in esame (Test item dilution)								K-	
			1	2	3	4	5	6	7	8		
Formaldeide (Formaldehyde) 0.7% PBS	B	0	4	3	0	0	0	0	0	0	0	0
	C	0	4	3	0	0	0	0	0	0	0	0
	D	0	4	3	0	0	0	0	0	0	0	0
	E	0	4	3	0	0	0	0	0	0	0	0
	F	0	4	3	0	0	0	0	0	0	0	0
	G	0	4	3	0	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction: VALID
Log TCID50: 2.50

Virus Control (Virus control)

RAW 264.7 ATCC TIB-71

Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) PBS 0 min	B	0	4	4	3	3	1	1	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	1	0	0	0
	E	0	4	4	3	3	1	1	0	0	0
	F	0	4	4	3	3	1	1	0	0	0
	G	0	4	4	3	3	1	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0

Cell destruction: VALID
Log TCID50: 7.50 ± 0.000

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) PBS 60 min	B	0	4	4	3	3	1	0	0	0	0
	C	0	4	4	3	3	1	0	0	0	0
	D	0	4	4	3	3	1	1	0	0	0
	E	0	4	4	3	3	1	1	0	0	0
	F	0	4	4	3	3	1	1	0	0	0
	G	0	4	4	3	3	1	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


Cell destruction: VALID
Log TCID50: 7.00 ± 0.447

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): BY 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area) Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 17 / 22 EDR: 1-P-QM-TEM-9081579

Data inizio (Started on): 26/05/20

Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Test di riferimento per l'inattivazione del virus (Reference test for virus inactivation)

RAW 264.7 ATCC TIB-71

Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Formaldeide (Formaldehyde) 0.7% PBS 30 min	B	0	4	4	2	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	2	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:

4.50

±

0.000

Reduction:

2.50

±

0.000

PASS

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Formaldeide (Formaldehyde) 0.7% PBS 60 min	B	0	4	3	1	0	0	0	0	0	0
	C	0	4	3	0	0	0	0	0	0	0
	D	0	4	3	0	0	0	0	0	0	0
	E	0	4	3	0	0	0	0	0	0	0
	F	0	4	3	0	0	0	0	0	0	0
	G	0	4	3	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

3.67

±

0.346

Reduction:

3.33

±

0.173


PASS

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): EF 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 18 / 22
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Data inizio (Started on): 26/05/20

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Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Virus Control (Virus control)

RAW 264.7 ATCC TIB-71

Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	3	3	2	1	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	1	0	0	0
	E	0	4	4	3	3	2	1	0	0	0
	F	0	4	4	3	3	2	1	0	0	0
	G	0	4	4	3	3	2	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

7.50

±

0.000

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
ACQUA (WATER) BSA + erythrocytes 0.3% final concentration Maximum contact time tested	B	0	4	4	3	3	2	1	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	1	0	0	0
	E	0	4	4	3	3	2	1	0	0	0
	F	0	4	4	3	3	2	1	0	0	0
	G	0	4	4	3	3	2	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0

Cell destruction:

VALID

Log TCID50:

7.50


±

0.000

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): FF 04/06/20Sigla Approver e data (Approver signature and date): BE 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 19 / 22
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Data inizio (Started on): 26/05/20 Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1 ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Controllo soppressione attività prodotto (Control of suppression of product's activity)

RAW 264.7 ATCC TIB-71

Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	3	3	2	0	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	0	0	0	0
	E	0	4	4	3	3	2	1	0	0	0
	F	0	4	4	3	3	2	1	0	0	0
	G	0	4	4	3	3	2	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

Cell destruction: **VALID**
 Log TCID50: **7.00** ± **0.447**
 Reduction: **0.50** **VALID**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	3	3	2	0	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	1	0	0	0
	E	0	4	4	3	3	2	1	0	0	0
	F	0	4	4	3	3	2	0	0	0	0
	G	0	4	4	3	3	2	1	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: **VALID**
 Log TCID50: **7.17** ± **0.400**
 Reduction: **0.33** **VALID**

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 0 min	B	0	4	4	3	3	2	1	0	0	0
	C	0	4	4	3	3	2	1	0	0	0
	D	0	4	4	3	3	2	1	0	0	0
	E	0	4	4	3	3	2	1	0	0	0
	F	0	4	4	3	3	2	1	0	0	0
	G	0	4	4	3	3	2	1	0	0	0
	Endpoint	0.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0


Cell destruction: **VALID**
 Log TCID50: **7.50** ± **0.000**
 Reduction: **0.00** **VALID**

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20

Sigla Approver e data (Approver signature and date): EF 04/06/20

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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 20 / 22
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Data inizio (Started on): 26/05/20

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Rapporto No (Report No): STULV20AA2313-1

ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Procedura test (Test procedure)

RAW 264.7 ATCC TIB-71

Murine norovirus (MNV, strain S99) RVB-651

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 80.0% BSA + erythrocytes 0.3% final concentration 5 min	B	0	4	4	2	0	0	0	0	0	0
	C	0	4	4	2	0	0	0	0	0	0
	D	0	4	4	2	0	0	0	0	0	0
	E	0	4	4	2	0	0	0	0	0	0
	F	0	4	4	2	0	0	0	0	0	0
	G	0	4	4	2	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:			4.50	±	0.000			
			Log reduction:			3.00	±	0.000			


Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 25.0% BSA + erythrocytes 0.3% final concentration 5 min	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	4	0	0	0	0	0	0	0
	G	0	4	4	0	0	0	0	0	0	0
	Endpoint	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Cell destruction: VALID								
			Log TCID50:			3.50	±	0.000			
			Log reduction:			4.00	±	0.000			

Condizioni testate (Test condition)	Replica	K-	Diluizione virus (Virus dilution)							K-	
			2	3	4	5	6	7	8		9
Velurex Multi Gen 1.0% BSA + erythrocytes 0.3% final concentration 5 min	B	0	4	3	2	2	0	0	0	0	0
	C	0	4	3	2	2	1	0	0	0	0
	D	0	4	3	2	2	0	0	0	0	0
	E	0	4	3	2	2	0	0	0	0	0
	F	0	4	3	2	2	0	0	0	0	0
	G	0	4	3	2	2	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:			5.67	±	0.346			
			Log reduction:			1.83	±	0.173			

Data verifica Approver (Approver verification date): 04/06/20

Sigla Tecnico e data (Technician signature and date): EF 04/06/20Sigla Approver e data (Approver signature and date): GE 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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 eurofins	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica <i>(Quantitative suspension test for the evaluation of virucidal activity in the medical area)</i> Norma (Standard): EN14476:2013+A2:2019 / UNI EN 14476:2019	Pagina (Page) 21 / 22 EDR: 1-P-QM-TEM-9081579

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Result summary


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

Prodotto (Product)	Velurex Multi Gen	
Sostanza interferente (Interfering substance)	BSA + erythrocytes 0.3% final concentration	
Tempo di contatto (Contact time)	5 min	
Concentrazione (Concentration)	Riduzione Log (Log Reduction)	Status
80.0%	3 ± 0	ND
25.0%	4 ± 0	PASS
1.0%	1.83 ± 0.17	FAIL

Data verifica Approver (Approver verification date): 04/06/20

Sigla Approver e data (Approver signature and date): axioalca 10

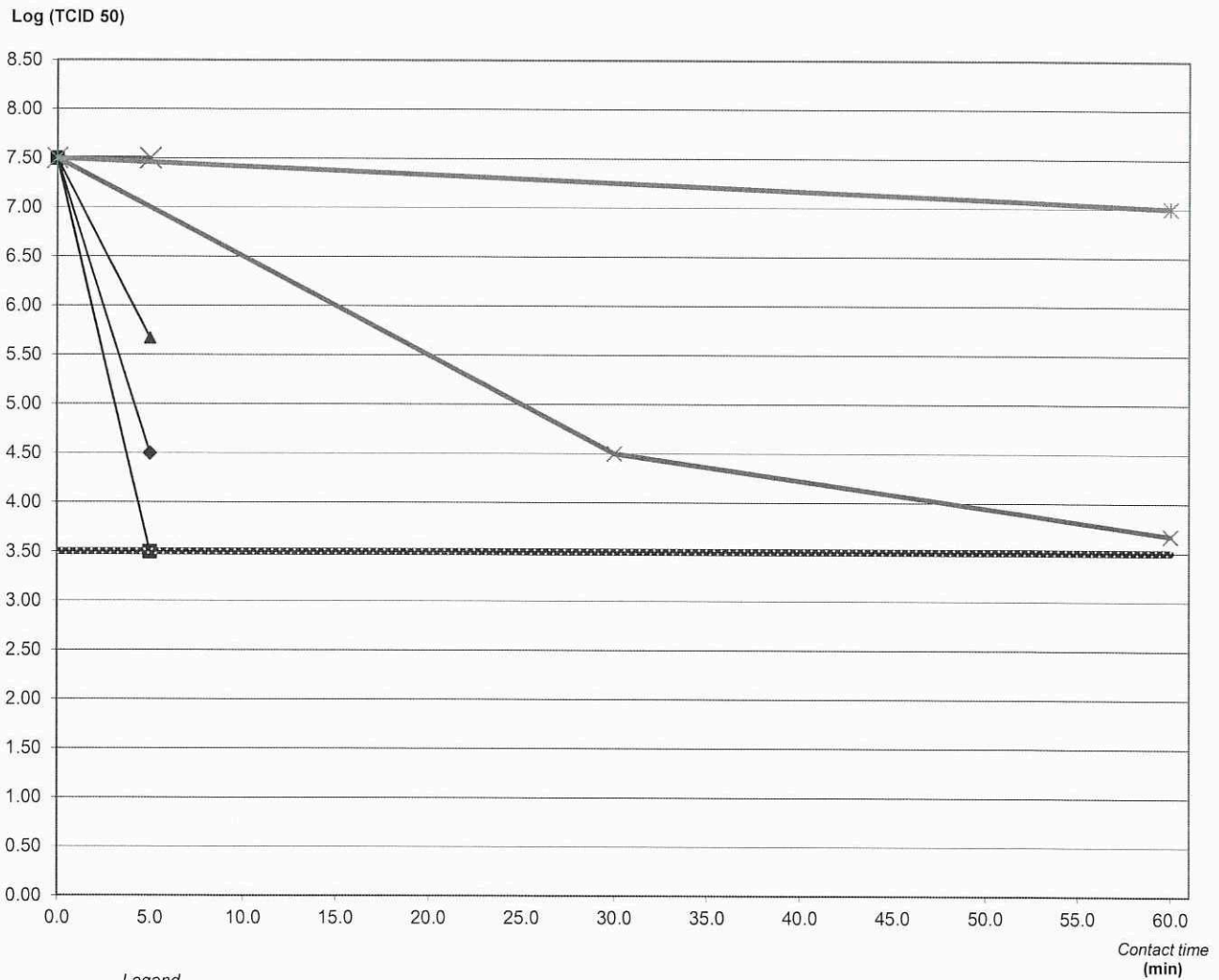
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	Prova quantitativa in sospensione per la valutazione dell'attività virucida in area medica (Quantitative suspension test for the evaluation of virucidal activity in the medical area)	Pagina (Page) 22 / 22
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Data inizio (Started on): 26/05/20 Data fine sperimentazione (Experimentation finished on): 29/05/20

Rapporto No (Report No): STULV20AA2313-1 ID Campione (ID sample): LV-MAT-FOV7-20-127-0952:a

Presentazione grafica del saggio (Graphic presentation of test)
Murine norovirus (MNV, strain S99) RVB-651



Legend

- Velurex Multi Gen 80 % BSA + erythrocytes 0.3% final concentration
- Velurex Multi Gen 25 % BSA + erythrocytes 0.3% final concentration
- ◆— Velurex Multi Gen 1 % BSA + erythrocytes 0.3% final concentration
- ▲— Virus Control (Virus control) BSA + erythrocytes 0.3% final concentration
- ×— Formaldeide (Formaldehyde)
- ACQUA PBS
- Effectiveness threshold

Data verifica Approver (Approver verification date): 04/06/20

Sigla Approver e data (Approver signature and date): BL 04/06/20

Revision: 1	Local reference: Mod. PS/MIC/0112.E
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