EAK
EN ISO/IEC 17025
L236

EVS-EN 14476:2013+A2
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Quantitative suspension test for the evaluation of virucidal activity in the medical area (phase 2, step 1)

Test report no 998

1. General information

Client:	ELADUM PHARMA SRL Reg. 1016600024547, Straseni, Cojusna, str. Centenarului, no. 2C, Rep. Moldova
Date of order:	2025/06/25

2. Identification of sample

Name of the product:	PEROXID DE HIDROGEN-ELADUM, SOLUTIE DESINFECTANTA 6 %
Batch number:	Lot 391224, DD 10.12.24
Expiration date of batch	2025/12/10
Aplication	Didinfectant in medical area RTU
Manufacturer:	ELADUM PHARMA

Microbiologist
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Date of delivery:	2025/01/17
Storage conditions:	room temperature and darkness
Apperance of the product	colorless liquid
Active substance and concentration	Hydrogen Peroxide - 6,0%

3. Test conditions

Test period:	2025/07/07 – 2025/07/31
End of testing	2025/07/31
Product test concentrations:	10%, 50%, 80,0%
Exposure time:	60 min.
Test temperature:	19,5°C ± 0,5°C
Interfering substance:	0,3 g/l bovine serum albumine (BSA) for low level soiling
Neutralization of active substance:	Immediate dilution, 30 min, +4°C
Diluent	PBS, EMEM + 2% FBS
Stability of product in the mix with virus and interfering substance	No flocculation, no precipitation
Test organisms:	Adenovirus type 5 ATCC VR-5 Murine Norovirus S99, RVB-0651 Human Coxsackievirus A 21 (Poliovirus type 1) ATCC VR-850

4. Materials

1.1 Culture medium and reagents

- Eagle´s Minimum Essential Medium (EMEM, Corning, REF 10-009-CVR)
- Dulbecco´s modification of Eagle´s Medium (DMEM, Corning, REF 10-014-CVR)
- Fetal Bovine Serum (FBS, Corning, REF 35-016-CV)
- 0,7 % Formaldehyde solution (Bio-Optica, Italy, 05-01V15PK)
- Aqua bi-distillate (Interflo OU, Estonia)
- PBS (Phosphate Buffered Saline)) (Corning, REF 21-040-CM)

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- BSA (Bovine Serum Albumin fr.V) (Roche Diagnostic GMBH)

1.2 Virus and cells

Strain: Adenovirus type 5 ATCC VR-5, LOT 70024114 (LGC Standards GmbH, Wesel, Germany)
HeLa cells ATCC-CCL-2, LOT 70037076. Morphology – epithelial-like (LGC Standards GmbH, Wesel, Germany)
Strain: Murine Norovirus S99, RVB-0651 (Friedrich-Loeffler-Institute, Greifswald, Germany)
Cells: RAW 264.7 CCLV-RIE 0996 cells, (ATCC- TIB-71), Home mouse (*Mus musculus*). Morphology – monocyte/macrophage (Friedrich-Loeffler-Institute, Greifswald,Germany)
Human Coxsackievirus A 21 strain Kuykendall [V-024-001-012] ATCC VR-850 (LGC Standards GmbH, Wesel, Germany)
HeLa cells ATCC-CCL-2, LOT 70037076. Morphology – epithelial-like (LGC Standards GmbH, Wesel, Germany)

1.3 Apparatus, glassware and small items of equipment

- CO2 incubator Memmert GmbH & Co. KG, ICO50 med, no D218.1233, Germany
- Agitator Vortex V-3, no 7EE0011 Biosan SIA, Latvia
- Digital pH-meter, Instrument: HI2002, SN:CO646088, Hanna, USA
- Centrifuge Centric 322A, Code: 464.000, Domel, d.o.o. BU Laboratory system, Slovenia
- Inverted microscope Motic AE2000 Series, Motic China Group, Ltd, China
- Water bath WB/OB 7-45 WBU 45 Memmert GmbH & Co. KG, Germany
- Adjustable and fixed-volume pipettes, Sartorius Lab Instruments GmbH & Co. KG Germany
- Tissue Culture Plate, 96-well, Falcon, REF 353072 Corning Incorporated, USA
- Tissue Culture flask Falcon pour culture cellulaire, REF 353108 Corning Incorporated, USA
- Tissue Culture flask Falcon pour culture cellulaire, REF 353136 Corning Incorporated, USA
- 50 mL Polypropylene Conical Tube Falcon a Corning Brand, REF 352070, Corning Science Mexico S.A. de C.V., Mexico

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5. Methods

5.1 Preparation of test virus suspension

For the preparation of the test virus suspension according to EN 5.4.1 cells which were cultivated with Eagle's Minimum Essential Medium (EMEM) supplemented with L-glutamine, sodium pyruvate and 10 % fetal calf serum (FCS), were infected with a multiplicity of infection of 0,1 at 37°C. After cells showed a cytopathic effect, they were subjected to a threefold freeze/thaw procedure followed by a low-speed centrifugation in order to sediment cell debris. After aliquotation of the supernatant, test virus suspension was stored at –80°C.

5.2 Preparation of disinfectant (dilutions)

The test product was evaluated as ready to use solution. Due to the addition of the test virus suspension and interfering substance an 80,0 % solution resulted. The test product was evaluated as 80,0 %, 50,0% solution and 10,0% solution (demonstrations of non –active range).

5.3 Infectivity assay

Infectivity was determined as endpoint titration according to EN 5.5 transferring 0.1 ml of each dilution into eight wells of a microtitre plate to 0.1 ml of freshly trypsinised cells ($10^3 - 10^4$ cells per well), beginning with the highest dilution. Microtitre plates were incubated at 37°C in a 5 % CO_2 – atmosphere. The cytopathic effect was read by using an inverted microscope after seven days. Calculation of the infective dose $TCID_{50}$ /ml was calculated with the method of Spearman (2) and Kärber 3) with the following formula:

$$-\log_{10} TCID_{50} = Xo - 0{,}5 + \sum r/n$$

meaning
Xo = log10 of the lowest dilution with 100 % positive reaction
r = number of pos. determinations of lowest dilution step with 100 % positive and all higher positive dilution steps
n = number of determinations for each dilution step.

5.4 Calculation and verification of virucidal activity

The virucidal activity of the test disinfectant was evaluated by calculating the decrease in titre in comparison with the control titration without disinfectant. The difference is given as reduction factor (RF).

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According to the EN 14476, a disinfectant or a disinfectant solution at a particular concentration is having virus-inactivating efficacy if the titre is reduced at least by 4 log10 steps within the recommended exposure period. This corresponds to an inactivation of ≥ 99,99 %.

5.5 Inactivation assay

Determination of virucidal activity has been carried out in accordance to EN 5.5. The test product was examined as 80,0 % solution in water at 20°C according to EN 14476, 60 min, was chosen as contact times.

Immediately at the end of the chosen contact time, activity of the disinfectant was stopped by dilution in cold medium and placed immediately in the water bath at +4°C Within 30 min. prepared dilutions up to 10 $^{-8}$ at +4°C and kept at +4°C until inoculation.

Titrations of the virus control were performed after the longest exposure time (EN 5.5.7).
Furthermore, a cell control (only addition of medium) was incorporated.

Inactivation tests were carried out in sealed test tubes in a water bath at 20°C ± 1.0°C. Aliquots were retained after appropriate exposure times, and residual infectivity was determined.

5.6 Determination of cytotoxicity

Determination of cytotoxicity was performed according to EN 5.5.4.1.

5.7 Cell sensitivity to virus

For the control of cell sensitivity to virus 0.3 parts by volume of water were mixed with 9.7 parts by volume of the lowest apparently non-cytotoxic dilution of the product. This mixture or PBS as control was added to a volume of double concentrated cell suspension. After 1 h at 37°C the cells were centrifuged and re-suspended in cell culture medium (EN 5.5.4.2b).
Finally, a comparative titration of the test virus suspension was performed on the pre-treated (disinfectant) and non-pre-treated (PBS) cells as described above.

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5.8 Control of efficacy for suppression of disinfectant`s activity

Furthermore, a control of efficiency for suppression of disinfectant`s activity was performed according (EN 5.5.5).

5.9 Reference virus inactivation test

As reference for the test validation 0,7 % formaldehyde solution according to EN 5.5.6 was included. 30 min was chosen as contact time. In addition, cytotoxicity of formaldehyde test solution was determined following EN 5.5.6.2 with dilutions up to 10^{-5} at +4°C.

6. Verification of the methodology

The following criteria as mentioned in EN 5.7 were fulfilled:

The following criteria as mentioned in EN 5.7 were fulfilled:

a) The titre of the test virus suspension allowed the determination of a ≥ 4 $\log_{10}$ reduction (maximal virus reduction ≥6,25±0,38).
b) The difference of the logarithmic titre of the virus control minus the logarithmic titre of the test virus in the reference inactivation test (see 6.6.7) was 4,25 (between 3,0 – 5,0) for adenovirus, 2,63 (between 1,0 – 3,0) for norovirus and 2,38 (between 0,5 – 2,5) for poliovirus after 30 min.
c) The test product 80% showed cytotoxicity in the 1:100 dilutions thus allowing the detection of a 4 $\log_{10}$ reduction of virus titre
d) The comparative titration on pre-treated (disinfectant) and non-pre-treated (PBS) BGM cells showed no significant difference <1 $\log_{10}$ of virus titre: for CCL2 - 8,50 (PBS) versus 7,88 (adenovirus, poliovirus 1:1000 dilutions of disinfectant, 80 %) log 10 $TCID_{50}$/ml., 9,13 (PBS) versus 8,63 (norovirus, 1:1000 dilutions of disinfectant, 80 %) log 10 $TCID_{50}$/ml, for CCLV, for CCL2 - 9,25 (PBS) versus 8,75 (poliovirus 1:1000 dilutions of disinfectant, 80 %) log 10 $TCID_{50}$/ml.
e) The control of efficacy for suppression of disinfectant`s activity (80 %) showed no decrease in virus titer (8,13 versus 8,25 for adenovirus, 8,63 versus 8,88 for norovirus, 8,75 versus 9,13 for poliovirus are ≤ 0,5 $\log_{10}$ $TCDI_{50}$/ml).

Since all criteria according EN 5.7 fulfilled, examination according to EN 14476 is valid.

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7. Results

Results for examination are shown in tables 1 to 9. Tables 1 to 6 demonstrate the raw data, whereas tables 7, 8, 9 gives a summary of results.

The test product in 80,0 % assay was able to inactivate Adenovirus after 60 min. in this quantitative suspension test (Table 1). The reduction factor was 5,25±0,97in clean conditions at this time point.
The test product in 80,0 % assay was able to inactivate Norovirus after 60 min. in this quantitative suspension test (Table 2). The reduction factor was >6,25±0,38 in clean conditions at this time point.
The test product in 80 % assay was unable to inactivate poliovirus after 60 min. in this quantitative suspension test (Table 3). The reduction factor was 3,25±0,46 at this time points.

8. Conclusion

The hand rub disinfectant PEROXID DE HIDROGEN-ELADUM, SOLUTIE DESINFECTANTA 6 % tested with concentration 80,0 % demonstrated effectiveness against Adenovirus and Norovirus after an exposure time of 60 min. under clean conditions.

Therefore, the disinfectant PEROXID DE HIDROGEN-ELADUM, SOLUTIE DESINFECTANTA 6 % Lot 391224 can be declared as disinfection in medical area with limited spectrum virucidal activity according to EN 14476 (EN 4, Table 1).

CLEAN UNDILUTED 60 min.

Maardu, 2025/08/21

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Table 1: Raw data for PEROXID DE HIDROGEN-ELADUM 6 % tested against Adenovirus at 20 °C (quantal test; 8 wells)

Product	Concentration	Interfering substance	Contact time	Dilution range (log 10)							
				2	3	4	5	6	7	8	9
Test product	80,0%	0,3 g/L BSA	60 min	tttt tttt	2200 0002	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000
Test product	50,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	4444 4443	2202 2220	0000 0000	0000 0000	0000 0000	0000 0000
Test product	10,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	4444 4444	3433 3333	2022 0020	0000 0000	0000 0000	0000 0000
Test product cytotoxicity	80,0 %	0,3 g/L BSA	n. a.	tttt tttt	0000 0000	0000 0000	0000 0000	n.d.	n.d.	n.d.	n.d.
Virus control	n. a.	0,3 g/L BSA	0 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4434 4443	2222 2222	0000 0000
Virus control	n. a.	0,3 g/L BSA	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 3443	2220 0222	0000 0000
Virus control	n. a.	0,3 g/L BSA	60 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4334 4334	0220 0222	0000 0000

n. a. – not applicable
n.d. – not done
0 – no virus present
T – cytotoxic
1 to 4 – virus present (degree of CPE in 8 cells units) (wells of microtiter plates)

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Table 2: Raw data for PEROXID DE HIDROGEN-ELADUM 6 % tested against Norovirus at 20 °C (quantal test; 8 wells)

Product	Concentration	Interfering substance	Contact time	Dilution range (log 10)							
				2	3	4	5	6	7	8	9
Test product	80,0%	0,3 g/L BSA	60 min	tttt tttt	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000
Test product	50,0%	0,3 g/L BSA	60 min	tttt tttt	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000
Test product	10,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	3343 3434	0202 0200	0000 0000	0000 0000	0000 0000	0000 0000
Test product cytotoxicity	80,0 %	0,3 g/L BSA	n. a.	tttt tttt	0000 0000	0000 0000	0000 0000	n.d.	n.d.	n.d.	n.d.
Virus control	n. a.	0,3 g/L BSA	0 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4434 3443	2022 0002
Virus control	n. a.	0,3 g/L BSA	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 4433	0022 0020
Virus control	n. a.	0,3 g/L BSA	60 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 3344	0020 0020

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Table 3: Raw data for PEROXID DE HIDROGEN-ELADUM 6 % tested against Poliovirus at 20 °C (quantal test; 8 wells)

Product	Concentration	Interfering substance	Contact time	Dilution range (log 10)							
				2	3	4	5	6	7	8	9
Test product	80,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	4444 4444	3333 3333	0220 0000	0000 0000	0000 0000	0000 0000
Test product	50,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	4444 4444	4444 4444	2222 0223	0000 0000	0000 0000	0000 0000
Test product	10,0%	0,3 g/L BSA	60 min	tttt tttt	4444 4444	4444 4444	4444 4444	3344 3443	0022 2002	0000 0000	0000 0000
Test product cytotoxicity	80,0 %	0,3 g/L BSA	n. a.	tttt tttt	0000 0000	0000 0000	0000 0000	n.d.	n.d.	n.d.	n.d.
Virus control	n. a.	0,3 g/L BSA	0 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4434 4443	2022 0222
Virus control	n. a.	0,3 g/L BSA	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 3433	0022 2220
Virus control	n. a.	0,3 g/L BSA	60 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 3333	2200 2020

n. a. – not applicable
n.d. – not done
0 – no virus present
T – cytotoxic
1 to 4 – virus present (degree of CPE in 8 cells units) (wells of microtiter plates)

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Table 4: Raw data for Formaldehyde solution (0,7 %) reference tests at 20 °C (quantal test; 8 wells)

Product	Concentration	Interfering substance	Contact time	Dilution range (log 10)							
				2	3	4	5	6	7	8	9
Formaldehyde	0,7 % (m/V)	PBS	30 min	tttt tttt	tttt tttt	2022 2202	0000 0000	0000 0000	0000 0000	0000 0000	0000 0000
Formaldehyde cytotoxicity	0,7 % (m/V)	PBS	n. a.	tttt tttt	tttt tttt	0000 0000	0000 0000	n.d.	n.d.	n.d.	n.d.
Adenovirus control	n. a.	PBS	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	2223 3222	0000 0000
Formaldehyde	0,7 % (m/V)	PBS	30 min	tttt tttt	tttt tttt	4444 4444	4434 4443	2322 3322	0000 2000	0000 0000	0000 0000
Formaldehyde cytotoxicity	0,7 % (m/V)	PBS	n. a.	tttt tttt	tttt tttt	0000 0000	0000 0000	n.d.	n.d.	n.d.	n.d.
Norovirus control	n. a.	PBS	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	0322 3022
Formaldehyde	0,7 % (m/V)	PBS	30 min	tttt tttt	tttt tttt	4444 4444	4333 3443	3222 2333	0220 2000	0000 0000	0000 0000
Formaldehyde cytotoxicity	0,7 % (m/V)	PBS	n. a.	tttt tttt	tttt tttt	0000 0000	0000 0000	0000 0000	n.d.	n.d.	n.d.
Poliovirus control	n. a.	PBS	30 min	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3444 3444	2202 2022

n. a. – not applicable
n.d. – not done
0 – no virus present
T – cytotoxic
1 to 4 – virus present (degree of CPE in 8 cells units) (wells of microtiter plates)

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Table 5: Raw data for control efficacy for suppression of disinfectant activity 80,0 % after 30 min.

Product	Concentration	Interfering substance	Dilution range (log 10)							
			2	3	4	5	6	7	8	9
PEROXID DE HIDROGEN -ELADUM, 6 %	80,0%	0,3 g/L BSA	tttt tttt	4444 4444	4444 4444	4444 4444	4444 4444	3433 4433	2200 2202	0000 0000
Adenovirus control	n. a.	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 3443	2220 0222	0000 0000
PEROXID DE HIDROGEN -ELADUM, 6 %	80,0%	0,3 g/L BSA	tttt tttt	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4233 2334	0000 0002
Norovirus control	n. a.	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 4433	0022 0020
PEROXID DE HIDROGEN -ELADUM, 6 %	80,0%	0,3 g/L BSA	tttt tttt	4444 4444	4444 4444	4444 4444	4444 4444	4443 4444	4433 3334	0200 0002
Poliovirus control	n. a.	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3443 3433	0022 2220

n. a. – not applicable
n.d. – not done
0 – no virus present
t – cytotoxic
1 to 4 – virus present (degree of CPE in 8 cells units) (wells of microtiter plates)

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Table 6: Raw data for cell sensitivity (80,0%)

	Product	Dilution	Interfering substance	Dilution range (log 10)							
				2	3	4	5	6	7	8	9
Adenovirus	PBS	-	-	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	2223 2222	0000 0000
	PEROXID DE HIDROGEN -ELADUM, 6 %	1:1000	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3333 4344	0220 0002	0000 0000
Norovirus	PBS	-	-	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4343	2220 0220
	PEROXID DE HIDROGEN -ELADUM, 6 %	1:1000	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3332 3333	0000 0220
Poliovirus	PBS	-	-	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 3443	2022 2022
	PEROXID DE HIDROGEN -ELADUM, 6 %	1:1000	0,3 g/L BSA	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	4444 4444	3433 3333	0000 2020

n. a. – not applicable
n.d. – not done
0 – no virus present
t – cytotoxic
1 to 4 – virus present (degree of CPE in 8 cells units) (wells of microtiter plates)

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Table 7: Summary of results of activity of the product PEROXID DE HIDROGEN-ELADUM 6 % with Adenovirus type 5 ATCC VR-5

Assay	Interfering substance	Concentration	Cytotoxicity level log_{10}	log_{10} $TCID_{50}$ / ml after …			Reduction with the confidence interval of 95 %
				0 min.	30 min.	60 min.	
Test product	0,3 g/L BSA	80,0 %	2,5			2,88±0,48	**5,25±0,97**
		50,0 %	2,5			5,25±0,16	2,88±0,33
		10,0 %	2,5			6,00±0,19	2,13±0,38
Virus control	0,3 g/L BSA	n.a.	n.a.	8,50±0,00	8,25±0,16	8,13±0,18	n.a.
Formaldehyde	PBS	0,7 % (w:v)	3,5		4,25		4,25
Formaldehyde	PBS	n.a.	n.a.		8,50		n.a.
Suppression of disinfectant activity	0,3 g/L BSA	80,0 %	2,5		8,13		n.a.
Cell sensitivity control PBS	PBS	n.a.	n.a.			8,50	n.a.
Cell sensitivity control test product	0,3 g/L BSA	1:1000	n.a.			7,88	n.a.

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Table 8: Summary of results of activity of the product PEROXID DE HIDROGEN-ELADUM 6 % with Murine Norovirus S99, RVB-0651

Assay	Interfering substance	Concentration	Cytotoxicity level log_{10}	log_{10} $TCID_{50}$ / ml after …			Reduction with the confidence interval of 95 %
				0 min.	30 min.	60 min.	
Test product	0,3 g/L BSA	80,0 %	2,5			<2,5±0,00	**>6,25±0,38**
		50,0 %	2,5			<2,5±0,00	**>6,25±0,38**
		10,0 %	2,5			4,88±0,18	3,88±0,53
Virus control	0,3 g/L BSA	n.a.	n.a.	9,00±0,19	8,88±0,18	8,75±0,16	n.a.
Formaldehyde	PBS	0,7 % (w:v)	3,5		6,63		4,25
Formaldehyde	PBS	n.a.	n.a.		9,25		n.a.
Suppression of disinfectant activity	0,3 g/L BSA	80,0 %	2,5		8,63		n.a.
Cell sensitivity control PBS	PBS	n.a.	n.a.			9,13	n.a.
Cell sensitivity control test product	0,3 g/L BSA	1:1000	n.a.			8,63	n.a.

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Table 9: Summary of results of activity of the product PEROXID DE HIDROGEN-ELADUM 6 % with Poliovirus type 1

Assay	Interfering substance	Concentration	Cytotoxicity level log_{10}	log_{10} $TCID_{50}$ / ml after …			Reduction with the confidence interval of 95 %
				0 min.	30 min.	60 min.	
Test product	0,3 g/L BSA	80,0 %	2,5			5,75±0,16	3,25±0,46
		50,0 %	2,5			6,38±0,13	2,63±0,41
		10,0 %	2,5			7,00±0,19	2,00±0,50
Virus control	0,3 g/L BSA	n.a.	n.a.	9,25±0,16	9,13±0,18	9,00±0,19	n.a.
Formaldehyde	PBS	0,7 % (w:v)	3,5		6,88		2,38
Formaldehyde	PBS	n.a.	n.a.		9,25		n.a.
Suppression of disinfectant activity	0,3 g/L BSA	80,0 %	2,5		8,75		n.a.
Cell sensitivity control PBS	PBS	n.a.	n.a.			9,25	n.a.
Cell sensitivity control test product	0,3 g/L BSA	1:1000	n.a.			8,75	n.a.

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Figure 1

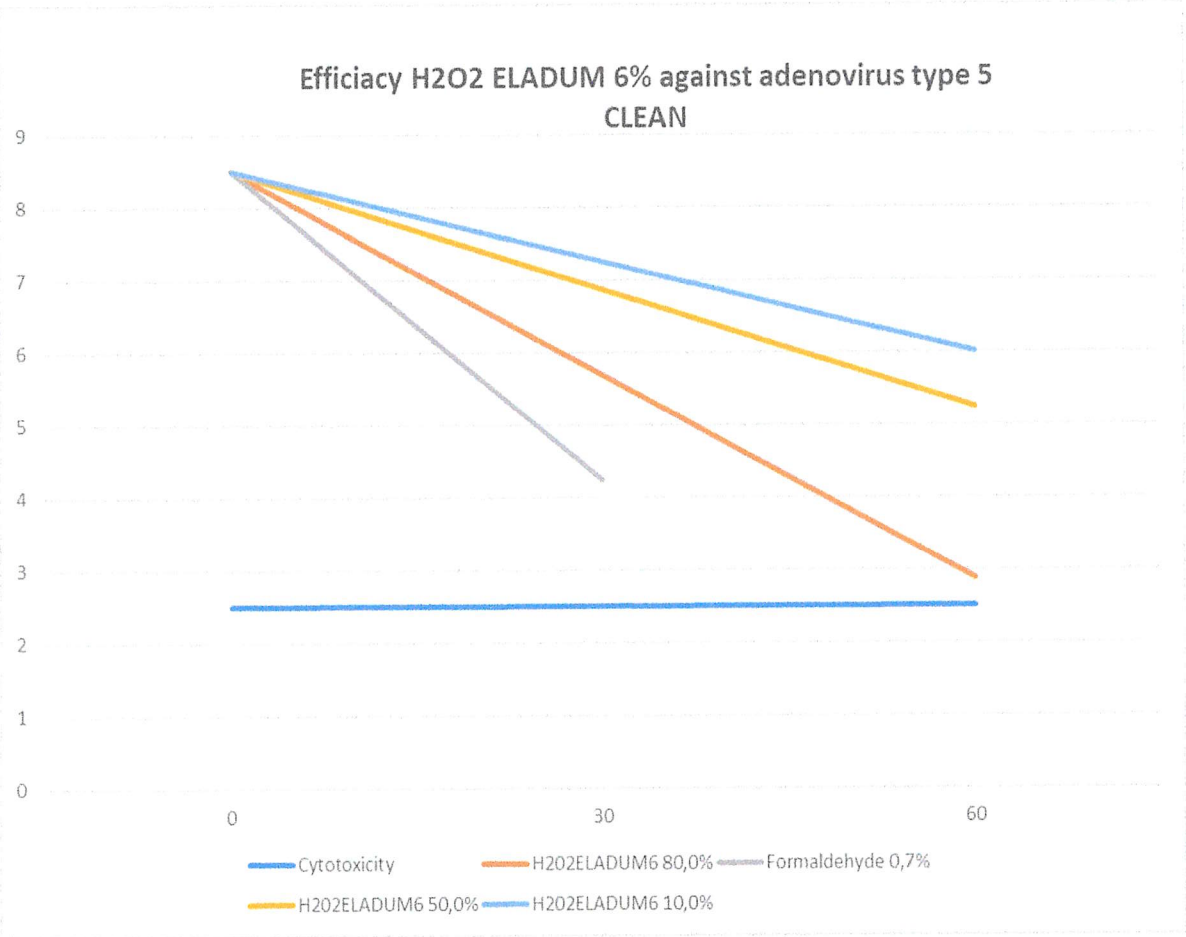

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Figure 2

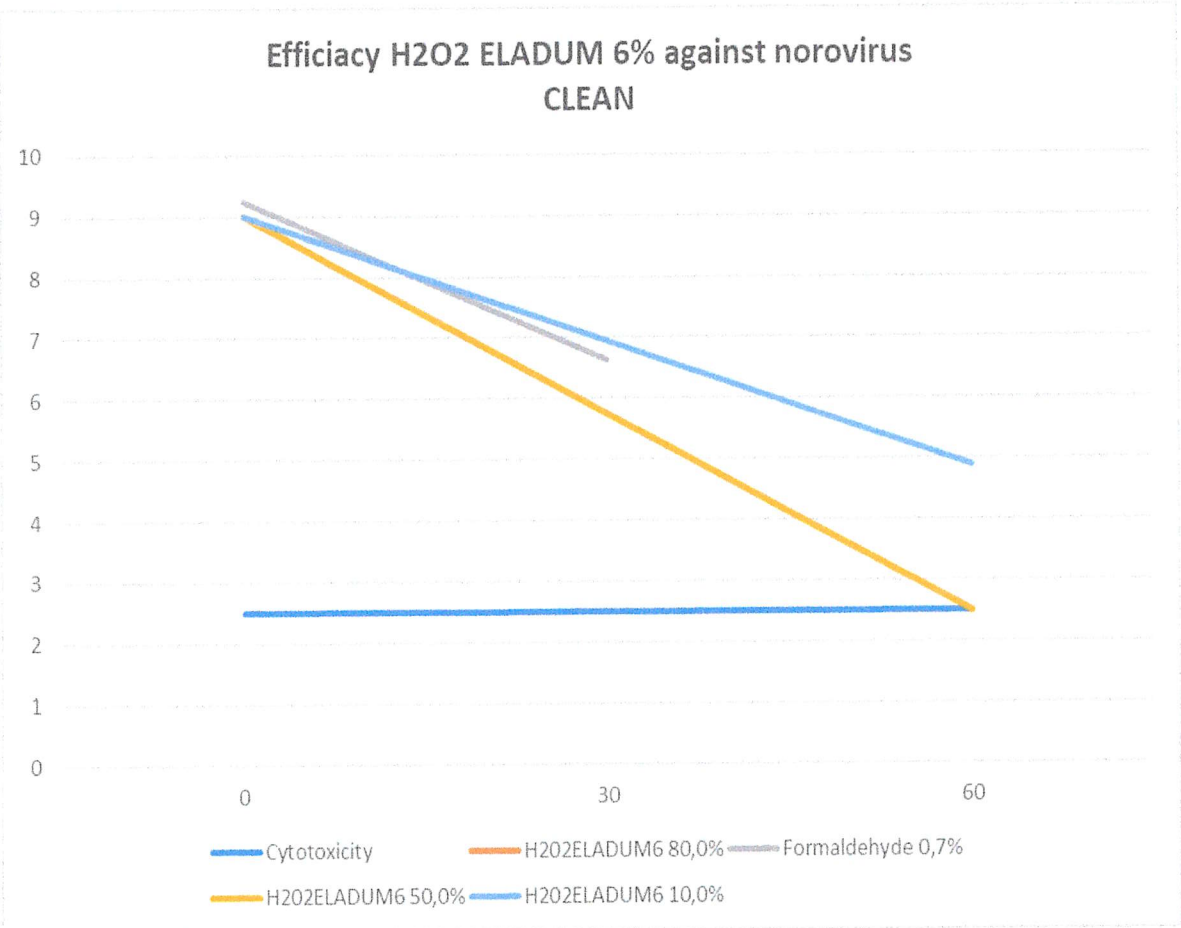

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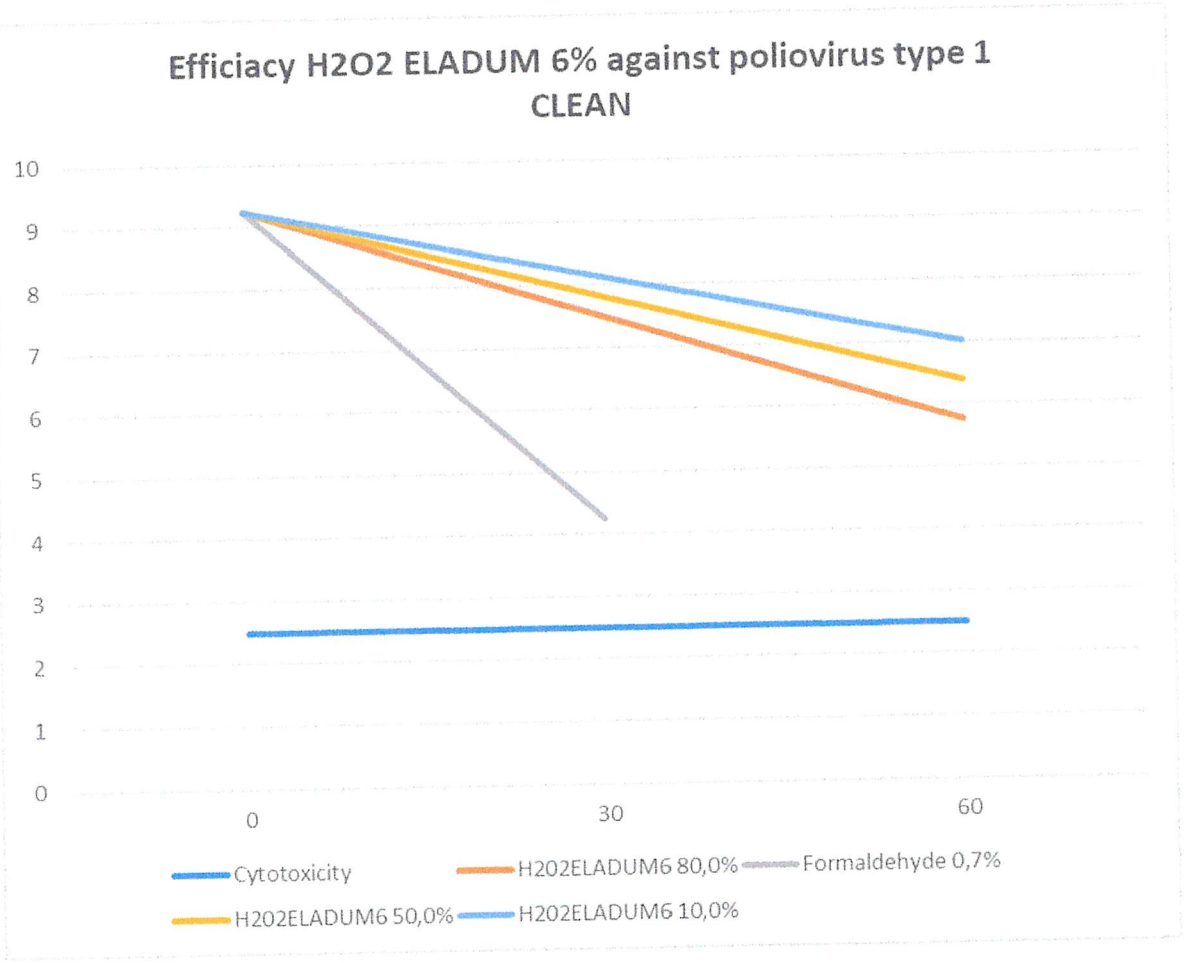
Figure 3



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