



Test report no. 2122RUVI-BA03

Sample data

Registration number:	2122RUVI-BA03	Batch number: 2-1 2-2 (internal)	Date of Manufacture: 7.9.2020 27.11.2020
Test subject / sample type:	Microbiology-Virology	Size of Packaging:	250 ml
Sample name:	RUVIREX AIR	Sample Taken By:	Client
Test requirement:	Virulocidal efficacy of the preparation according to EN 14476 + A2		
Customer report number:			

Customer Data

Client / customer:	RUVIREX, a.s.	Date of receipt of samples:	1.12.2020
Organizational unit		Date of tests performed from:	01.4.2021
Contract /order	ZoD 91/200/2020	To:	07.04.2021
		Date of report:	

Statement of compliance / non-compliance

Meets the requirements for virulocidal activity according to the standard

This test was performed as part of the validation of the Standard Working Protocol for the method.

Statements and notices

- Biotechnological laboratories of BMC SAS are, as a testing laboratory, the holder of the Certificate on compliance with the principles of Good Manufacturing Practice for manufacturers no. SK / 002V / 2020.
- This report may only be reproduced in its entirety, part of the report only with the consent of the examiner laboratory.
- The test equipment and gauges used for the tests have been calibrated and verified in accordance with the applicable metrological regulations.

Complaints and storage of samples

- The results of laboratory tests can be claimed within 30 days from the date of issue of the report.
- Only written complaints are accepted and handled.
- Only samples for which the original properties do not change are retained, until the expiration of the complaint period.
- Return of the remaining samples - samples are returned to the customer only at their request and at their own costs.

The test report and its accuracy corresponds to: Dr. V. Zelník.

The report will be sent to: Ing. M. Obrk, RUVIREX, ***LLC.

Test report no. 2122RUVI-BA01

Sample data

Registration number:	2122RUVI-BA03	Batch number: 2-1 2-2 (internal)	Date of Manufacture: 7.9.2020 27.11.2020
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Experimental test conditions

Testing of disinfection efficiency of chemical disinfectants by suspension method SOP ... (in preparation)

According to EN 14476: 2013 + A2: 2019: Quantitative test to evaluate virulocidal activity for chemical disinfectants and antiseptics used in medicine
Test method and requirements (phase 2, step 1)
Testing for hygienic means for washing and disinfecting hands

Test temperature: 20 ° C ± 1 ° C

Titration method: Titration of the virus on a monolayer of susceptible cells in microtiter plates

Dilution medium: Undiluted preparation

Appearance of the product: Gel suspension, slightly cloudy

Product concentration: 100%

Contact time: 60 sec (30-120 sec according to standard)

Load conditions: no load

Reference preparation: Not tested

Stopping the effect of the product: Transfer to ice

Virus used: Mouse herpesvirus 68-GFP (MHV68-GFP, WSV 29/12/2020) as an alternative enveloped virus instead of the MVA vaccinia virus recommended by the standard

Cell line: BHK-21, + 15th passage

Virus incubation conditions: 37 ° C ± 1 ° C

Virus titer calculation: TCID₅₀ according to the Spearman-Kärber method

Description of abbreviations:

Abbreviation	Description
TCID ₅₀	50% infectious dose producing cytopathic effect on cells
CPE	Cytopathic effect
CFU	Colony forming unit
pfu	Plaque forming unit

Test report no. 2122RUVI-BA01

Sample data

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Test results

Tested according to: EN 14476 + A2

Test/measured quantity /parameter	Test method	Unit of measurement	Limit value	Test Result	Declaration of compliance	Tested On
Virulocidal effect of the tested preparation	Virus titration	TCID ₅₀	min. 4 log titer reduction	≥ -4 log reduction	Satisfies	6.4.2021
Virus infectivity test	Virus titration	TCID ₅₀	min. 10 ⁵	7,5 x 10 ⁵	Low	6.4.2021
Virulocidal effect of the reference product	Virus titration	TCID ₅₀	0,75 – 3,5	Not Tested	-	
Cytotoxic effect of the tested preparation	Observation of cytopathic effect	CPE		10 ⁻² partially	-	6.4.2021
Microbiological load of the tested preparation	Determination of the population of microorganisms on products	CFU	0	Not Tested	-	

Test report no. 2122RUVI-BA01

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1. Testing the virulocidal effect of the preparation on the virus

Preparation: RUVIREX AIR 2-1, RUVIREX AIR 2-2

Virus: MHV68-GFP, model enveloped virus

Susceptible cells: BHK-21.

Virus incubation time on cells: 96 hours.

CPE of the virus observed by fluorescence microscopy.

Virus Dilution	Number of holes showing CPE				
	Virus Control	Virulocidal activity of the preparation RUVIREX AIR 2-1	Cytopathic effect of the product RUVIREX AIR 2-1	Virulocidal activity of the preparation RUVIREX AIR 2-2	Cytopathic effect of the product RUVIREX AIR 2-2
10 ⁻²	8/8	0/8	8/8 partial	0/8	8/8 partial
10 ⁻³	8/8	0/8	0/8	0/8	0/8
10 ⁻⁴	8/8	0/8	0/8	0/8	0/8
10 ⁻⁵	3/8	0/8	0/8	0/8	0/8
10 ⁻⁶	0/8	0/8	0/8	0/8	0/8
10 ⁻⁷	0/8	0/8	0/8	0/8	0/8
10 ⁻⁸	0/8	0/8	0/8	0/8	0/8
10 ⁻⁹	0/8	0/8	0/8	0/8	0/8
10 ⁻¹⁰					
10 ⁻¹¹					
TCID ₅₀	7,5 x 10 ⁵	0		0	-