



## Annex No.1 - Record of analysis No: 64S/2021\*

Date of issue:	16.7. 2021
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Client:	Mekem.cz, s.r.o. Lidická 700/19 Veveří, Brno
Date of receiving the sample:	31.5.2021
Place of analysis:	UCT Department of biotechnology, Technická 1905/5, 166 28 Prague 6 *
Date of analysis start:	7.7.2021
Date of realisation:	7. - 9.7.2021
<b>Sample:</b>	
Object of testing: +	ANNIHILATOR LUMENMAX typ PL/CL 24 COB LED UVC
Purpose of analysis:	antivirus activity testing including SARS-CoV-2*: exposure time 0 - 240 min test distance 1 m
Methods of testing:	annex
Place of sampling: +	client
Sample taken by: +	client

Explanations:

+ Information provided by the customer

\*\* Results relate to the received sample

Methods labelled by sign \* are not accredited

## Workflow:

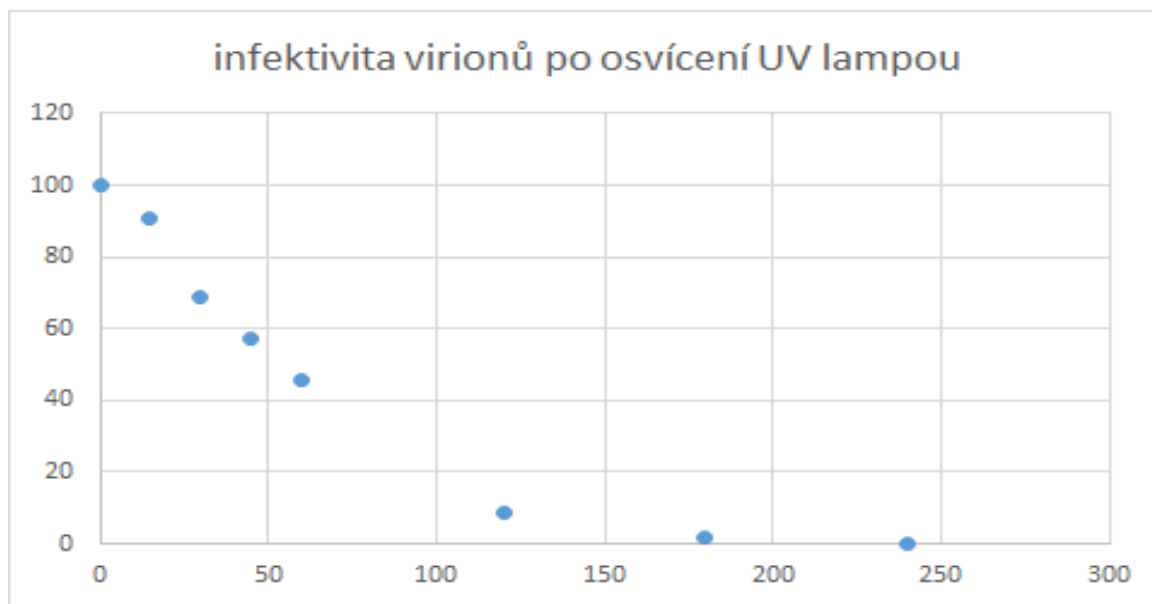
Pseudolentiviral particles - RNA enveloped viruses, prepared in HEK-293 cells, were irradiated with a UV lamp and samples of viruses were taken at time intervals of 0 -240 min. Fresh HEK-293 cells (human embryonic kidney cells) were infected with these samples.

The number of infected cells was measured 48 hours after infection.

The amount of infected cells at time 0 is 100%. After two hours, the viruses are able to infect only 8.5% of the cells, and after three hours only less than 2% compared to the unlit viruses.

Working height of the tested device: 1 m = max. Height of the flow box space

- graph: infectivity of virions after UV lamp illumination



Legends: x-axis ..... time [min]  
y-axis ..... infectivity of virions [%]

## Conclusion: \*

The amount of infected cells at time 0 is 100%. After two hours, the viruses are able to infect only 8.5% of the cells, and after three hours only less than 2% compared to the unlit viruses.

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