

Test Report, COVID-19 inactivation.

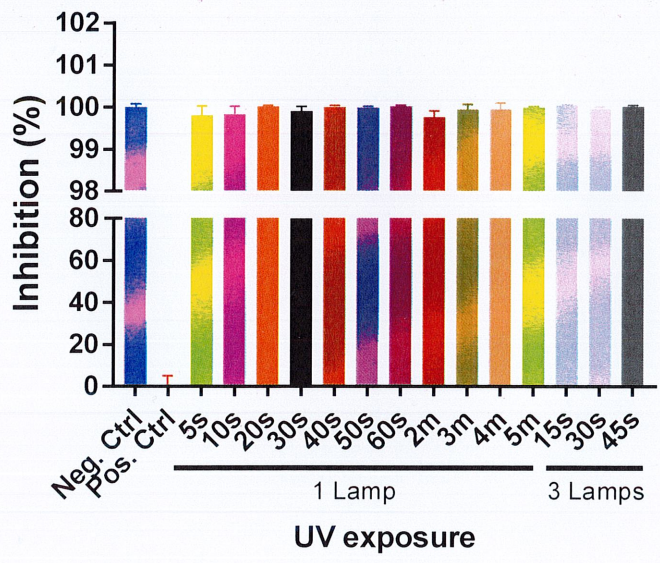
Umeå University, Sweden, Dept of Clinical Microbiology, Virology have tested the capability of Whitebox LED modules to inactivate SARS-CoV-2. The testing was conducted in a biosafety level-3 (BSL-3) laboratory with live SARS-CoV-2 from cultivated virus samples.

The virus samples were inserted one by one in centre below Whitebox LED module inside test box. The test box replicates the real Whitebox products, and has similar distances, materials, and UV-C dosage.

Samples was removed after specified time for each trial. The experiment was performed in triplicates to ensure reliability.

Together all the tests shows that the Whitebox LED modules inactivates SARS-COV2 to 100% in less than 5 seconds. All test from 5s to 5min showed 100% inhibition of the virus. The detection method uses fluorescent light and has high tolerance, small std deviation also confirmed the reliability of tests.

	Only cells		Cell + Virus		1 Lamps													3 Lamps		
	Neg. Ctrl	Pos. Ctrl	5s	10s	20s	30s	40s	50s	60s	2m	3m	4m	5m	15s	30s	45s				
1	99.92	5.24	99.61	99.83	100.00	99.89	99.96	99.98	100.03	99.64	99.98	100.08	99.98	100.03	99.94	100.04				
2	100.05	-1.08	99.74	100.00	100.04	100.02	100.03	100.01	100.00	99.91	100.04	99.98	100.00	100.04	100.00	100.04				
3	100.03	-3.90	100.04	99.65	100.00	99.82	100.00	99.98	100.04	99.74	99.81	99.78	100.01	100.05	99.94	99.98				
Average of inhibition (%)	100.00	0.09	99.80	99.83	100.01	99.91	100.00	99.99	100.02	99.77	99.94	99.95	100.00	100.04	99.96	100.02				
SD (%)	0.06	3.82	0.18	0.14	0.02	0.08	0.03	0.02	0.02	0.11	0.10	0.12	0.01	0.01	0.03	0.03				



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