



## **LT Blue light photon disinfection solution**

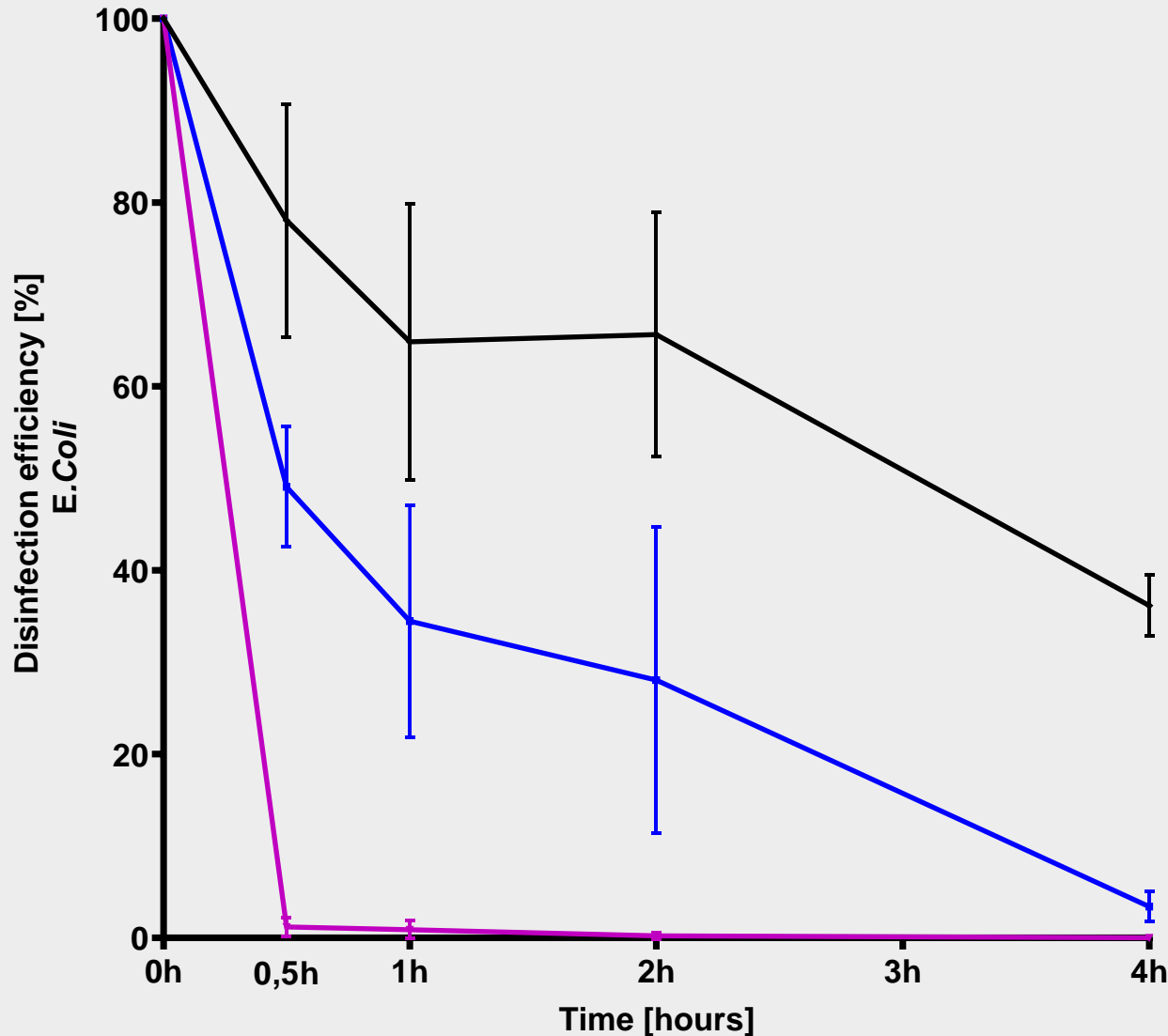
Results from Microbiological testing done in August 2020  
at MetropoliLab, Helsinki, Finland using E.Coli

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# RESULTS AT 4h

## LED Tailor Blue light photon disinfection solution



- Control (dark)
- LT Blue light
- LT Blue light + coating

In summer 2020, laboratory tests were conducted at the FINAS accredited MetropoliLab to determine the efficiency of LED Tailor’s photon disinfection system in inactivation of E.Coli (ATCC 25922).

The bacteria were spread out on the bottom of a plastic petri dish and irradiated with low intensity blue light (0,7 mW/cm<sup>2</sup>) under regular office conditions.

Each test result contains three parallel samples from each point of analysis. Error bars show SD (Standard deviation)

**2-hour irradiation resulted in reduction of over 99,9 % (over 3 log<sub>10</sub>). Already after 30min, the reduction was 99 % (2 log<sub>10</sub>).**

## OTHER INFO, TABLES

Measured intensity = 0,7 mW/cm<sup>2</sup>, corresponds to a light dose of:

0,5h	1,25 J/cm <sup>2</sup>
1h	2,5 J/cm <sup>2</sup>
2h	5 J/cm <sup>2</sup>
4h	10 J/cm <sup>2</sup>

Reduction (E.Coli ATCC 25922)				
Time	Reduction	WiSDOM AiR 0550	WiSDOM AiR 0550 + coating	Control (dark)
<b>0,5h</b> (1,25 J/cm <sup>2</sup> )	<b>percent</b>	50,9 %	98,8 %	21,9 %
	<b>logaritmico</b>	0,3 log <sub>10</sub>	1,9 log <sub>10</sub>	0,1 log <sub>10</sub>
<b>1h</b> (2,5 J/cm <sup>2</sup> )	<b>percent</b>	65,5 %	99,1 %	35,1 %
	<b>logaritmico</b>	0,5 log <sub>10</sub>	2,1 log <sub>10</sub>	0,2 log <sub>10</sub>
<b>2h</b> (5 J/cm <sup>2</sup> )	<b>percent</b>	72,0 %	99,9 %	34,4 %
	<b>logaritmico</b>	0,6 log <sub>10</sub>	3,6 log <sub>10</sub>	0,2 log <sub>10</sub>
<b>4h</b> (10 J/cm <sup>2</sup> )	<b>percent</b>	96,6 %	>99,99 %	63,9 %
	<b>logaritmico</b>	1,5 log <sub>10</sub>	>4,0 log <sub>10</sub>	0,4 log <sub>10</sub>
<b>Light intensity</b>		0,7 mW/cm <sup>2</sup>	0,7 mW/cm <sup>2</sup>	-

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