

INDEPENDENT EFFICACY TEST RESULTS

Visium Far-UVC proven effective against bacteria, viruses, and fungi

Claimed Performance

The claimed reduction of microorganisms is supported by testing based on modified ASTM E1053 and ASTM E1153 surface protocols, as well as antimicrobial aerosol chamber testing informed by ASHRAE 241. Testing was conducted at Microchem Laboratory, an independent ISO 17025 accredited facility, and supports the claim of bioburden reduction in both air and on non-medical surfaces.

Visium devices equipped with both Clear Optics (CO) and Diffused Optics (DO) were evaluated against no-treatment controls, with three technical replicates performed for each condition. The aerosol chamber testing was conducted in a room volume of 800 ft³, and surface testing was performed at a distance of 0.5 meters on hard, non-porous surfaces.

Table 1. Reduction of specific microorganisms by the Visium Clear optics device.

Microorganism	Type	Exposure Time (min)	% Reduction (vs. Control)	Log Reduction (vs. Control)
Aerosol				
<i>Esherichia coli</i> , ATCC 8739	Bacteria	30	96	1.5
<i>Staphylococcus aureus</i> ATCC 6538	Bacteria	30	99.9	3
MS2 Bacteriophage ATCC 15597-B1	Virus	60	96	1.5
Surface				
<i>Acinetobacter baumannii</i> (MDR) ATCC 19606	Bacteria	40	99.99	4
<i>Clostridioides difficile</i> ATCC 43598	Bacteria	40	99	2
<i>Enterococcus faecalis</i> (Vancomycin-resistant) (VRE) ATCC 51575	Bacteria	40	99.6	2.5
<i>Staphylococcus aureus</i> (Methicillin-Resistant) (MRSA) ATCC 33591	Bacteria	40	99.6	2.5
<i>Streptococcus pyogenes</i> ATCC 19615	Bacteria	40	99	2
<i>Candida auris</i> CDC AR BANK 381	Fungi	40	99.9	3
Adenovirus ATCC VR-5	Virus	33	99.44	2.25
Human coronavirus 229E strain ATCC VR-740	Virus	10	99.9	3
Influenza A (H1N1) virus A/PR/8/34 strain ATCC VR-1469	Virus	5	98.22	1.75
Norovirus surrogate (Feline calicivirus ATCC VR-782)	Virus	5	82.22	0.75
Respiratory syncytial virus (RSV) ATCC VR-26	Virus	5	99.44	2.25

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Table 2. Reduction of specific microorganisms by the Visium Diffused optics device.

Microorganism	Type	Exposure Time (min)	% Reduction (vs. Control)	Log Reduction (vs. Control)
Aerosol				
<i>Escherichia coli</i> , ATCC 8739	Bacteria	30	98.2	1.75
MS2 Bacteriophage ATCC 15597-B1	Virus	180	99.9	3
Surface				
<i>Acinetobacter baumannii</i> (MDR) ATCC 19606	Bacteria	252	99.999	5
<i>Clostridioides difficile</i> ATCC 43598	Bacteria	252	98.9	1.97
<i>Enterococcus faecalis</i> (Vancomycin-resistant) (VRE) ATCC 51575	Bacteria	252	98.2	1.75
<i>Staphylococcus aureus</i> (Methicillin-Resistant) (MRSA) ATCC 33591	Bacteria	252	99.9	3
<i>Streptococcus pyogenes</i> ATCC 19615	Bacteria	252	99.9	3
<i>Candida auris</i> CDC AR BANK 381	Fungi	252	99.8	2.75
Adenovirus ATCC VR-5	Virus	199	99.9	3
Human coronavirus 229E strain ATCC VR-740	Virus	33	99	2
Influenza A (H1N1) virus A/PR/8/34 strain ATCC VR-1469	Virus	33	99	2
Norovirus surrogate (Feline calicivirus ATCC VR-782)	Virus	33	98.2	1.75
Respiratory syncytial virus (RSV) ATCC VR-26	Virus	33	99	2

Regulatory Compliance

In the United States, UV-C lights that are sold or distributed with claims that the product can be used for preventing, destroying, repelling, or mitigating any pest (including plants, animals, viruses, bacteria, or other microorganisms) are federally regulated by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act as a device, specifically under FIFRA Sections 2(q) and 7.

These federal regulations require devices to:

- Be produced in an EPA-registered pesticide-producing establishment and adhere to production reporting requirements, in accordance with 40 C.F.R. Part 167
- Comply with labeling requirements under 40 C.F.R. Part 156. Generally, device labels must include warning and caution statements, directions for use, and the EPA establishment number, among other required elements

All claims made in connection with the sale or distribution of a device are truthful, not misleading, and supported by efficacy data as described above.



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