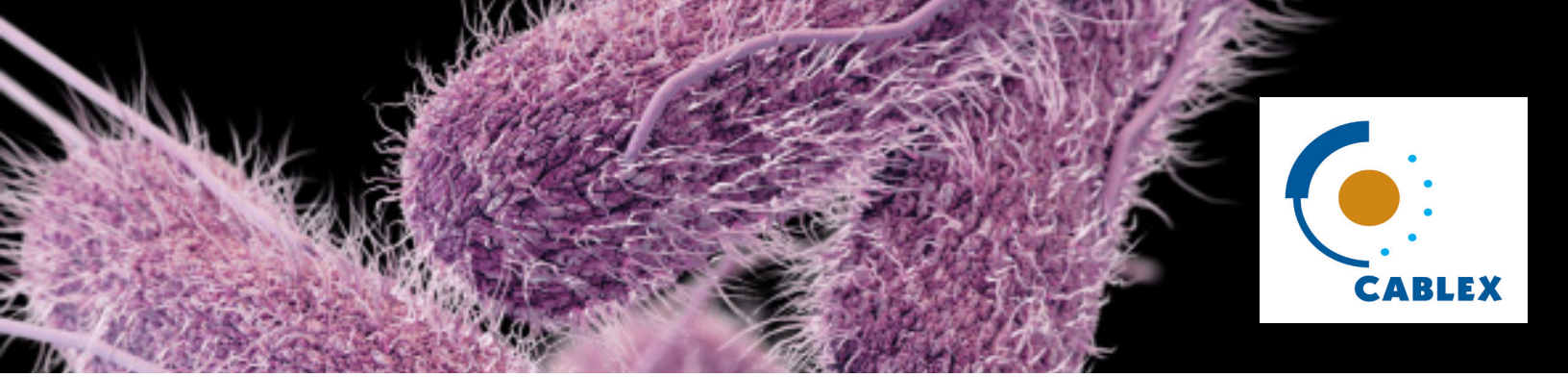

Violet Defense's technology has been tested by independent accredited third-party testing labs. Units tested utilize pulsed Xenon technology to deploy powerful, broad spectrum UV-C, UV-B, UV-A, and violet blue light.

BACTERIAL TESTING

	AVERAGE PERCENTAGE REDUCTION
	3 meters
E. coli	99.99%
Salmonella	99.9%
MRSA	99.9%

BACTERIAL SPORE TESTING

	AVERAGE PERCENTAGE REDUCTION
	1.5 meters
C. diff	99.9%

VIRAL TESTING

	AVERAGE PERCENTAGE REDUCTION
	2 meters
Norovirus	99.99%
Coronavirus	99.99%

FUNGAL TESTING

	AVERAGE PERCENTAGE REDUCTION
	1 meter
C. auris	>99.98%

PATHOGENS TESTED

The CDC actively maintains a list of drug-resistant pathogens that pose a threat to the United States. The loss of effective antibiotics makes it even more critical to have alternate solutions to prevent the spread of bacteria, virus, and fungi. Violet Defense tested its technology against key pathogens of greatest concern.

E. coli
- This bacteria has multiple strains that is most commonly known for food poisoning.
- Over 260,000 infections occur each year from Shiga toxin-producing *E. coli* (STEC)

Salmonella
- Leading cause of hospitalizations due to foodborne disease costs an estimated $2.2 billion[2] in healthcare costs

MRSA
- MRSA is a type of staph bacteria resistant to many antibiotics
- Over 80,000 cases of MRSA each year and 11,000 associated deaths each year in the U.S.

C. diff
- Clostridioides difficile (*C. diff*) is a bacterium that causes diarrhea and colitis (an inflammation of the colon)
- Approximately 29,000 people diagnosed with C. diff in a year died within one month of diagnosis.

Norovirus
- Highly contagious virus, norovirus causes inflammation of stomach and intestines, resulting in vomiting and diarrhea
- Estimated to cause 19-21 million illnesses each year in the U.S.

Coronavirus
- Coronaviruses are highly contagious viruses causing severe respiratory illnesses, including the 2020 global pandemic.

C. auris
- This highly lethal, antifungal resistant fungus is an emerging, yet serious global health threat.