

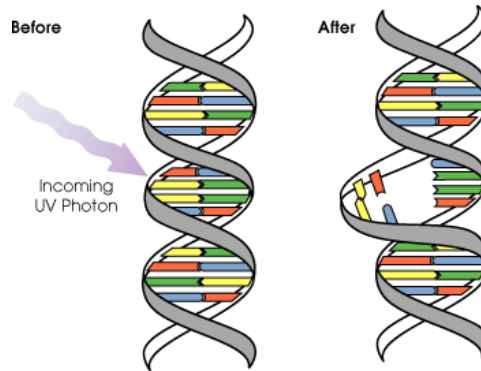
## Why UV-C Light?

### What is UV-C?

Ultraviolet-C (UV-C) is an invisible light that emits short wavelengths, typically between 200 nm-280 nm. UV-C light is naturally emitted by the sun, but it is filtered by the Earth's ozone layer thereby, shielding us from its harmful affects. The unique germicidal properties of UV light have been used for many of years, primarily in water treatment, biotechnology, and food processing facilities. There are many sources of peer-reviewed articles that prove UV-C light as an effective solution to inactivate microorganisms.

### How does UV light inactivate microorganisms?

UV light works by line of sight. Exposure to UV light for a critical period will lead to damage of the DNA/RNA structure of microbes. Specifically, it is the induction of lesions between the bonds of nucleic acids that will inhibit its vital replication process, rendering the microbe no longer infectious.



### Is UV-C Safe?

The risks associated with UV light technology is minimal when proper personal protective equipment (PPE) and safety practices are followed. However, direct exposure to UV light is hazardous and can cause damage to human skin and eyes. So, it is important to be understand how devices that use UV technology works and if it meets the required safety certifications.

### What effects UV light efficacy?

UV light efficacy will depend on several factors such as microbial anatomy (eg. Enveloped vs. non-enveloped viruses), presence of organic/inorganic load, level of microbial contamination, and UV light intensity.

### What pathogens does CleanSlate UV inactivate?

CleanSlate UV is proven to work on various bacteria, viruses, and spores. It is effective on some of the most adverse pathogens such as MRSA, *C. diff*, *E. coli*, and SARS-CoV-2. It is a trusted solution used by hospitals around the globe and validated with EPA recommended testing protocols.

Recently, CleanSlate UV became the first mobile device sanitizer to make a testing-backed claim against SARS-CoV-2, the virus that causes COVID-19. We achieved a 99.995% kill rate in just 20 seconds.