

New Coronavirus (SARS-CoV-2)

Testing Institution: Certified Nonprofit Organization Biomedical Science Research Association

◆ Test conditions

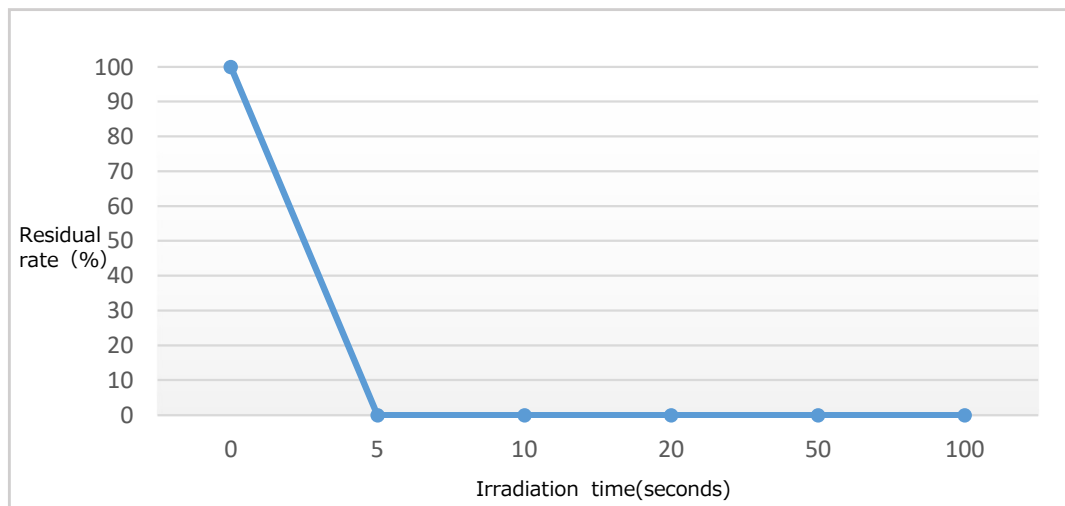
Wavelength	276nm	Center illuminance	2.6mW/cm ²
IF	350mA	Distance	50mm

◆ Test method

The virus dilution solution is introduced into the cuvette, and then irradiated with deep ultraviolet LED for a set period of time. After irradiation, the virus titer is measured using the plaque assay method. This is part of our rigorous process that ensures the highest standards.

◆ Test results

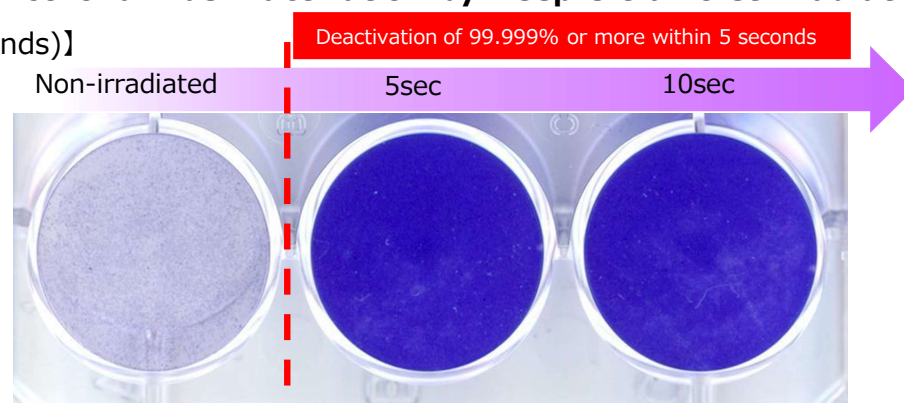
We have confirmed a deactivation of 99.999% or more within 5 seconds.



Level	Time (seconds)	Virus titer (pfu/ml)	Residual rate (%)
276nm@350mA Center illuminance : 2.6 mW/cm ² (Distance 50mm)	0	128000	100%
	5	≤1	0.00078%
	10	≤1	0.00078%
	20	≤1	0.00078%
	50	≤1	0.00078%
	100	≤1	0.00078%

◆ The state of novel coronavirus inactivation by Deep Ultraviolet irradiation

【Irradiation Time (seconds)】



(The blue color indicates that the virus has been inactivated and lost its infectivity)