

Human Coronavirus (HCoV-229E)

Testing Institution: Certified Nonprofit Organization Biomedical Science Research Association

◆ Test conditions

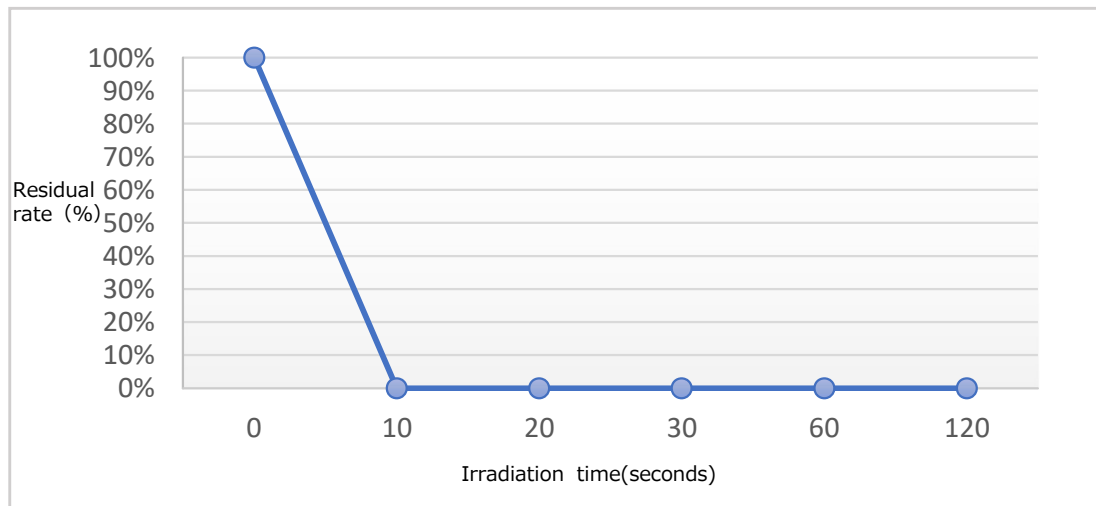
Wavelength	278nm	Center illuminance	2.6mW/cm ²
IF	350mA	Distance	50mm

◆ Test method

A sample is created by applying a virus solution to a predetermined plate. Inside a safety cabinet, the sample is irradiated with deep ultraviolet LED. Immediately after irradiation, a cell contact test is conducted, and the amount of virus in the culture supernatant is measured after six days.

◆ Test results

We have confirmed deactivation within 10 seconds.



Level	Time (seconds)	TCID ₅₀ /ml Conversion value	Residual rate (%)
278nm@350mA Center illuminance : 2.6 mW/cm ² (Distance 50mm)	0	7.9x10 ⁵	100%
	10	1.4x10 ¹	0.0018%
	20	4.5x10 ¹	0.0057%
	30	7.9x10 ¹	0.0100%
	60	4.5x10 ¹	0.0057%
	120	4.5x10 ¹	0.0057%

Below detection limit

◆ Test Implementation Status

