

## E. coli (NBRC3972)

Testing Institution: Japan Food Research Laboratories, a general incorporated foundation.

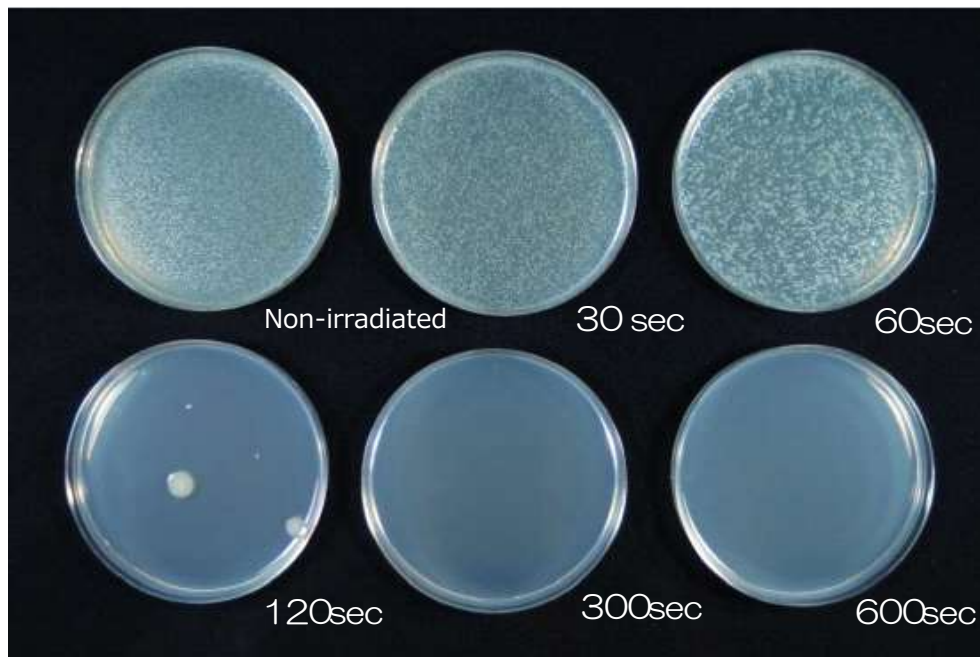
### ◆ Test conditions

Wavelength	280nm
IF	20mA
Center illuminance	0.163mW/cm <sup>2</sup>
Distance	22mm

### ◆ Test method

A predetermined amount of diluted bacterial solution in a container is irradiated with deep ultraviolet LED for a set period of time. The bacterial solution is then cultured in an agar medium.

### ◆ Cultivation results



### ◆ Test results

Irradiation Time (seconds)	Non-irradiated	30	60	120	300	600
Ultraviolet irradiation energy (mJ/cm <sup>2</sup> )	—	4.89	9.78	19.56	48.9	97.8
<b>Inactivation rate (%)</b>	—	<b>38</b>	<b>82</b>	<b>99.999</b>	<b>≥99.999</b>	<b>≥99.999</b>