



# STERILA®

Super energy saving + sterilization / sterilization lighting

The Hottest Business Trends of 2023



# Features of ultra-energy-saving, sterilizing LED lighting

What are the features of ultra-energy-saving, sterilizing, and virus-inactivating lighting? It is the only lighting that can sterilize and sterilize without changing the light intensity even with less than half the power consumption (5.6w) of conventional lighting. With the same type of power supply circuit, the power consumption is 13.2w. It is an overwhelming energy saving design. Only 20 seconds for viruses and 2 hours for E. coli Kills more than 70%, almost disappears in 5 hours The only lighting available! Moreover, from AC100V SAIKYO's original ultra-energy-saving lighting that directly drives a 5V DC LED.

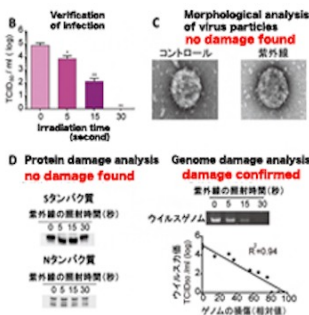
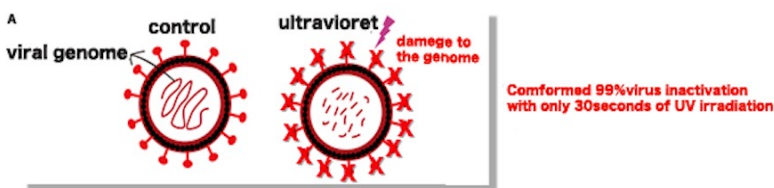


The designation of coronavirus infectious diseases has changed to category 5 (influenza, etc.), and the daily announcement of infected people has disappeared, but it has never disappeared, and tens of thousands of people are still experiencing symptoms every day. It doesn't change that it's a very dangerous virus like flu with a high risk of aggravation. In addition, the danger of new infectious diseases is being called out, and we hope that this lighting will be introduced to the office and home as a help for the elderly and people with chronic diseases to live with peace of mind in the future. I'm here.



## Virus inactivation mechanism and fungal sterilization test results

### New coronavirus inactivation mechanism by ultraviolet irradiation Caused by damage to viral RNA Presented by RIKEN



	紫外線
Effects on SARS-CoV-2	Viral inactivation by damage to viral RNA with out damage to viral proteins
Effects on mutant strains	A similar effect can be expected
Effects on new viruses	A similar effect can be expected
The way to use	Virus in activation effect on the surface of materials, in water, & in aerosols
Advantage	Harmless to the human body & other living organisms
Visible light ultraviolet	
How to use	irradiate the surface of the material, water, air etc.

The vertical axis indicates infectivity (viral titer). The virus titer decreased in a time-dependent manner by applying visible ultraviolet rays. 30 seconds of irradiation reduced infectivity by 99.99%.

We confirmed that ultraviolet rays were applied to SARS-CoV-2 in liquid culture and the virus's hepatic activity was reduced by 99.99%. We found that the mechanism of SARS-CoV-2 inactivation lies in damage to viral RNA, and that there is no change in the shape of viral proteins or viral particles. Also found that visible light ultraviolet rays (harmless) damage the entire region of the viral genome and quickly inactivate it.

成績書		4産総食技第1-953号	
依頼者	住所 茨城県水戸市平須町1-822-285	氏名 株式会社SAIKYO 森島恭司	
依頼事項	機械器具の性能試験、写真撮影		
試料品名	5H照射 菌を減らした物	数量	1点
成績(結果)	<p>標準寒天培地入りシャーレの全面に大腸菌 (<i>Escherichia coli</i> NBRC 3301) を塗抹したものを2枚用意した。この内、1枚のシャーレを依頼者が持参した装置に依頼者の指示どおりに設置し、装置のLEDを5時間照射させた。この後にシャーレを取り出し、35℃で24時間培養したものを照射品とした。残りの1枚のシャーレを35℃で24時間培養したものを未処理品とした。</p> <p>未処理品と照射品の写真は以下のとおりです。</p>		
受付施設	あいち産業科学技術総合センター-食品工業技術センター		
試料の成績(結果)	上記のとおりです。		
日付	令和5年2月17日		
担当者	あいち産業科学技術総合センター所長 中川 幸臣		
注	試料品名は依頼者の申出のとおり記載しています。		

# Sterilization, ultra-energy-saving LED lighting lineup



## Product Specifications

Super energy-saving disinfection desk Light

Product name	Disinfecting desk light
Model No	L20230510
Size	Head: Approx. W3.5 x H1.7 x D30 cm, Arm: Approx. 34 cm, Base: Approx. W9.7 x H2 x D16 cm
Weight	500g
Power consumption	4.5w
Material	ABS resin
accessories	None

Super energy-saving fluorescent lamp type Light

Product name	Sterilization LED fluorescent lamp 1200mm
Model No	L20230520
Size	1200mm
Weight	240g
Power consumption	16w
Material	Polycarbonate resin
accessories	None

Super energy-saving disinfection downlight

Product name	Sterilized downlight
Model No	L20230530
Size	160mmx120mm
Weight	650g
Power consumption	5.6w
Material	aluminum
accessories	ceiling clamp



### Caution

Product specifications are subject to change without notice as of May 2023.  
 The product warranty period is one year after installation.  
 (It breaks down during normal use, we will repair or replace it free of charge.)  
 The chassis is individually designed and customized.

### Development & manufacturer

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Sales agent

# Head office ▪ sales office

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## Head Office



## Sugisaki Office



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