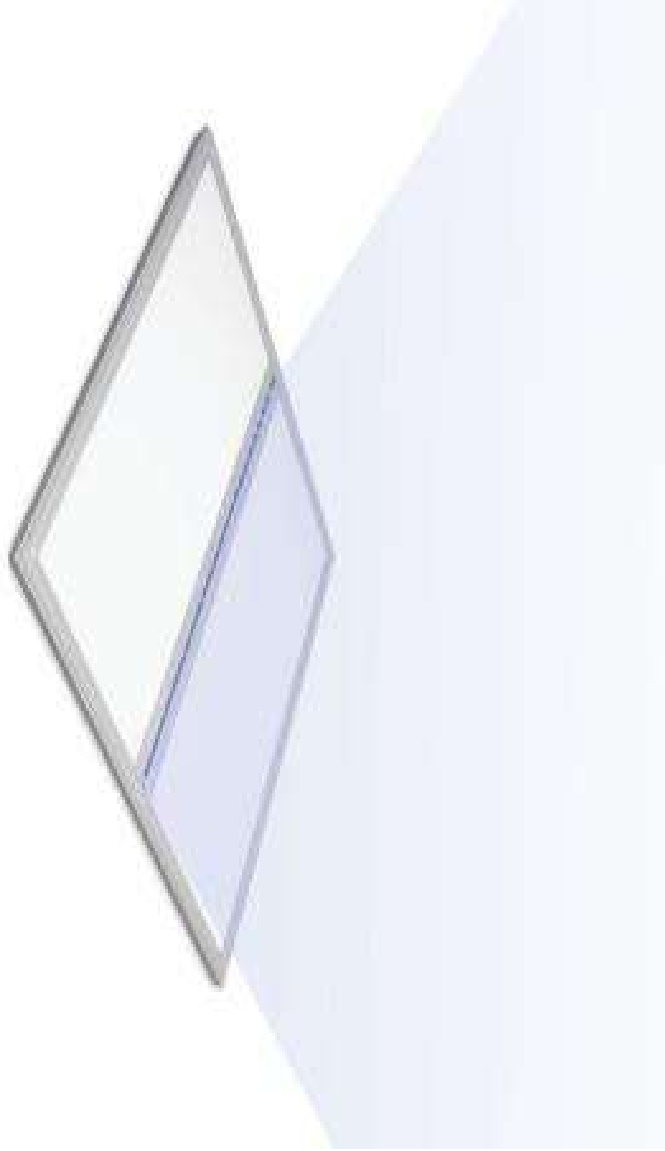


# CLEAN EDGE



# Testing & Certificates



# Efficacy Test Result by



- **Test Laboratory:** Intertek Testing Services Singapore Pte Ltd
- **Test Organism:** Staphylococcus aureus ATCC 6538
- **Test Duration:** 30mins, 3hrs, 9hrs, 24hrs
- **Distance:** 2 meters from 405nm light
- **Test Result:**

Test Duration (2m from light source)	Results		
	Control Sample	Test Sample	Reduction rate
0 min	1.2 x 10 <sup>4</sup> cfu/ml	1.2 x 10 <sup>4</sup> cfu/ml	0%
30 minutes	1.2 x 10 <sup>4</sup> cfu/ml	2.8 x 10 <sup>3</sup> cfu/ml	76.7%
3 hours	1.0 x 10 <sup>4</sup> cfu/ml	1.1 x 10 <sup>3</sup> cfu/ml	89.0%
9 hours	9.3 x 10 <sup>3</sup> cfu/ml	1.2 x 10 <sup>2</sup> cfu/ml	98.7%
24 hours	8.2 x 10 <sup>3</sup> cfu/ml	<10 cfu/ml	99.9%

**99.9%**

- **Test Laboratory:** Intertek Testing Services Singapore Pte Ltd
- **Test Organism:** Staphylococcus aureus ATCC 6538
- **Test Duration:** 30mins, 3hrs, 9hrs, 24hrs
- **Distance:** 3 meters from 405nm light
- **Test Result:**

Test Duration (3m from light source)	Results		
	Control Sample	Test Sample	Reduction rate
0 min	1.1 x 10 <sup>4</sup> cfu/ml	1.1 x 10 <sup>4</sup> cfu/ml	0%
30 minutes	1.1 x 10 <sup>4</sup> cfu/ml	4.8 x 10 <sup>3</sup> cfu/ml	56.4%
3 hours	1.0 x 10 <sup>4</sup> cfu/ml	3.3 x 10 <sup>3</sup> cfu/ml	67.0%
9 hours	9.0 x 10 <sup>3</sup> cfu/ml	7.5 x 10 <sup>2</sup> cfu/ml	91.7%
24 hours	6.1 x 10 <sup>3</sup> cfu/ml	10 cfu/ml	99.8%

**99.8%**



# Efficacy Test Result by

ams

- Test Laboratory: Eurofins ams Laboratories Pty Ltd
- Test Organism: MHV-1 (Surrogate viruses for use in disinfectant efficacy tests to justify claims against COVID-19 ; <https://www.tga.gov.au/surrogate-viruses-use-disinfectant-efficacy-tests-justify-claims-against-covid-19> )
- Test Duration: 4hrs, 24hrs
- Distance: 2 meters from 405nm light
- Test Result:

Virus log <sup>10</sup>	Control (t=0)	Control (t=4)	Control (t=24)	Test (t=4 hours)	Test (t=24 hours)
Log <sup>10</sup>	8.33	8.33	4.75	5.25	3.33
Log reduction	n/a	n/a	n/a	3.08	1.42
% reduction	n/a	n/a	n/a	99.92	96.20

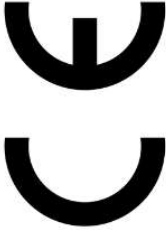


**99.92%**

# Efficacy Tests Summary for Clean Edge

Test Laboratory	Test Organisms	Test Conditions	Test Result
<b>Eurofins ams Laboratories Pty Ltd</b> 	MHV-1 (Surrogate virus for coronavirus as per TGA guidelines for disinfectant efficacy tests on for coronavirus)  Staphylococcus aureus ATCC 6538	<ul style="list-style-type: none"> <li>- 2 meters from 405nm light</li> <li>- 4hrs, 24hrs exposure</li> </ul>	<ul style="list-style-type: none"> <li>- 99.92% reduction after 4hrs</li> <li>- 96.20% reduction after 24hrs due to the natural death in control carrier</li> </ul>
<b>Intertek Testing Services Singapore Pte Ltd</b> 	Staphylococcus aureus ATCC 6538	<ul style="list-style-type: none"> <li>- 2 meters from 405nm light</li> <li>- 30min, 3hrs, 9hrs, 24hrs exposure</li> </ul>	<ul style="list-style-type: none"> <li>- 76.7% reduction after 30min</li> <li>- 89.0% reduction after 3hrs</li> <li>- 98.7% reduction after 9hrs</li> <li>- 99.9% reduction after 24hrs</li> </ul>
<b>KR Biotech Co Ltd</b> 	Staphylococcus aureus ATCC 6538  Corona virus (SARS-CoV-2)	<ul style="list-style-type: none"> <li>- 3 meters from 405nm light</li> <li>- 30min, 3hrs, 9hrs, 24hrs exposure</li> </ul>	<ul style="list-style-type: none"> <li>- 56.4% reduction after 30min</li> <li>- 67.0% reduction after 3hrs</li> <li>- 91.7% reduction after 9hrs</li> <li>- 99.8% reduction after 24hrs</li> </ul>
<b>Korea Conformity Laboratories</b> 	Escherichia coli ATCC 25922 Staphylococcus aureus ATCC 6538 Klebsiella pneumoniae ATCC 4352 MRSA	<ul style="list-style-type: none"> <li>- 50 cm from 405nm light</li> <li>- 60min, 120min exposure</li> </ul>	<ul style="list-style-type: none"> <li>- 97.34% reduction after 60min</li> <li>- 99.16% reduction after 120min</li> </ul>
<b>Korea Testing &amp; Research Institute</b> 	Salmonella typhimurium ATCC 13311 Listeria monocytogenes ATCC 19111	<ul style="list-style-type: none"> <li>- 1 meter from 405nm light</li> <li>- 24hrs exposure</li> </ul>	<ul style="list-style-type: none"> <li>- 99.9% reduction for all test organisms</li> <li>- +98% reduction for Salmonella</li> <li>- +99% reduction for Listeria</li> </ul>



## Certificate and Approval Summary for Clean Edge

Certificates	Standards	Mark
<b>CE Marking</b>	<ul style="list-style-type: none"><li>- LVD Directive 2014/35/EU</li><li>- EMC Directive 2014/30/EU</li><li>- RoHS Directive 2011/65/EU recasting 2002/95/EC</li><li>- Directive 2015/863/EU</li></ul>	
<b>IECEE CB Scheme</b>	<ul style="list-style-type: none"><li>- IEC 60598-1:2014/AMD1:2017</li><li>- IEC 60598-2-2:2011</li></ul>	
<b>IEC62471A</b>	<ul style="list-style-type: none"><li>- IEC 62471:2006</li></ul>	
<b>EMC Test</b>	<ul style="list-style-type: none"><li>- CISPR 15:2013+AMD1:2015</li><li>- AS/NZS CISPR 15:2017</li><li>- IEC 61647:2009</li><li>- IEC 61000-3-2:2018</li><li>- IEC 61000-3-3:2013+AMD1:2017</li></ul>	
<b>Australian Approbation</b>	<ul style="list-style-type: none"><li>- Electrical Safety as Level 1 based on CB Test Report, Photobiological Safety Test Report, PAHS Chemical Testing Report</li><li>- Electrical Equipment Safety System (EESS) and Regulatory Compliance Mark (RCM)</li><li>- Electromagnetic Compatibility (EMC)</li></ul>	