

# 3luV Lite

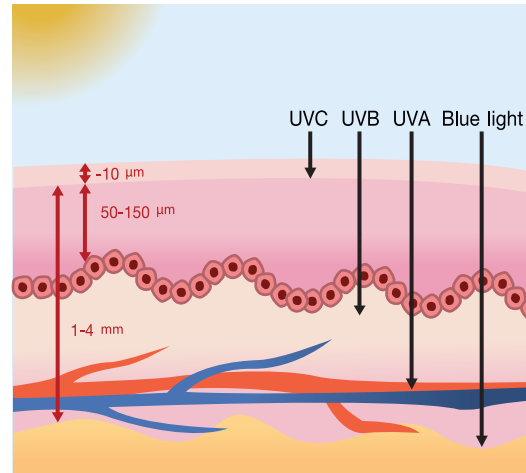
*"A natural, Blue light and UV protection from sunlight, luminescence devices, and gadgets."*



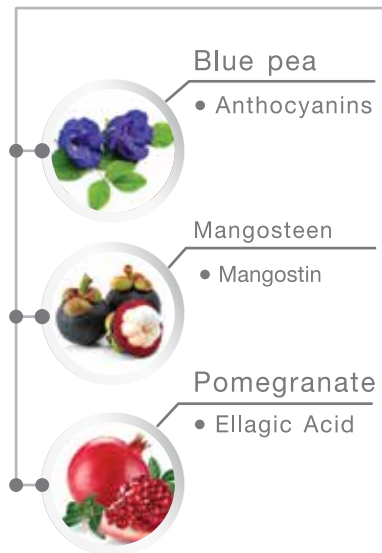
# BiOCPX Technology

Innovative technology that combined natural extracts with synergist effect to infiltrate quickly that helps rejuvenate our skin cells from deep inside at full capacity.

# 3luV Lite



Computers, smartphones, fluorescent lights and various other electronics and gadgets all emit blue light, or high-energy visible light (HEV light), and UV light. The visible blue light corresponds to the wavelengths in the range of 400 – 700 nanometers, and the invisible UV light is in range of 200 – 400 nanometers. When compare wavelengths with it Blue light and UV light, Blue light has higher penetrating potential into the skin through dermis skin layer to the blood cells. Therefore, daily usage of electronic devices along with being out in the sun, are dangerous to the skin. The activities promote the production of melanin and increase the appearance of dark spots, freckles, wrinkles, and even cause skin cancer. Since it is impossible to avoid being exposed to HEV light and UV light, it becomes crucial to effectively shield our skin from HEV and UV exposure.



The **3luV Lite** Complex contains precious concentration of natural Anthocyanin from Blue pea extract; Mangostin from Mangosteen peel extract; and Ellagic Acid from Pomegranate extract. The standardized complex can effectively absorb HEV light at 400 nanometers. The complex can also rejuvenate the skin, prevent further damage, and eliminate free radicals and wrinkles. Though this product shows slower result when compared to cosmetic and skincare chemicals, it is a safer option for your skin.

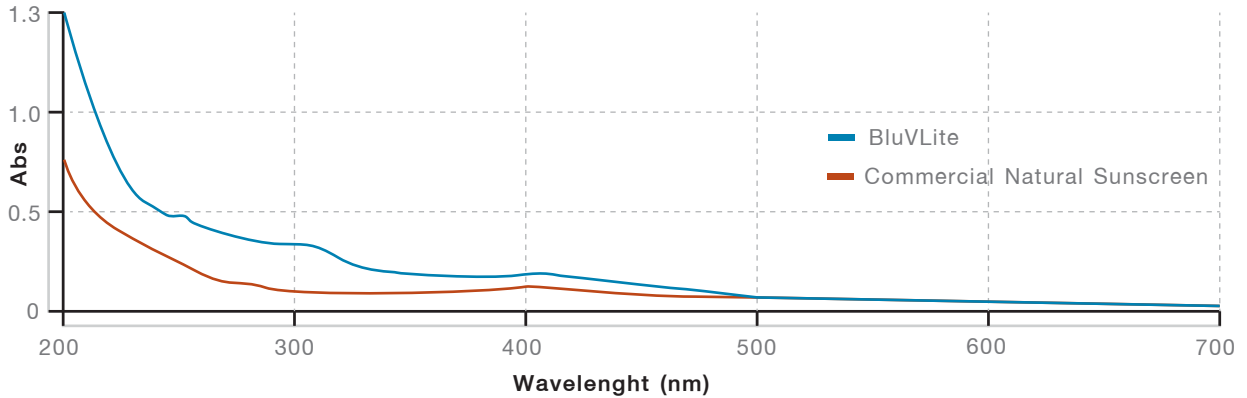
Categorised of Blue light and UV light permitting to wavelength and the damaging effects to the skin

Region	UVB	UVA	BLUE LIGHT
Wavelength range(nm)	280-320	320-400	400-500
ENERGY	High  Low		
Penetration	Low  High		
Penetration	Epidermis to basal cell	Dermis	Dermis to blood cells
Damage caused to skin	<ul style="list-style-type: none"> <li>• Reddening</li> <li>• Blistering</li> <li>• Skin cancer</li> </ul>	<ul style="list-style-type: none"> <li>• Free radical formation</li> <li>• Skin aging</li> <li>• Vascular and lymphatic damage</li> <li>• DNA damage</li> </ul>	<ul style="list-style-type: none"> <li>• Degrades elastin and collagen</li> <li>• Formation of glycation wrinkles</li> <li>• Premature aging</li> </ul>

# Result

The study of BluV Lite has shown a positive result in DPPH scavenging activity. BluV Lite result is 1.78 times better than commercial natural sunscreen product. BluV Lite also shown better absorption of blue light and UV when compared.

DPPH scavenging activity	Tocopherol	Commercial Natural Sunscreen	BluV Lite
IC <sub>50</sub> (ppm)	5.75	517.5	290.08



Absorption spectra for BluV Lite and Commercial Natural Sunscreen (diluted 1,000 times) wavelength 200-700 nm

## Key benefits

BluV Lite with BIOC PX

- Protects skin from elastin and collagen degradation
- Inhibits the formation of glycation wrinkles
- Prevents skin aging that is generated through accelerated cell senescence

# 3luV Lite Information

INCI Name	: Butylene glycol and <i>Clitoria ternatea</i> Flower Extract and <i>Garcinia mangostana</i> Peel Extract and <i>Punica granatum</i> Peel Extract
Indication	: Curative in skin care
Claim	: Blue light and UV Protection
Recommended dosage	: 0.8 - 5.0%
Properties	: Protection against Blue light and UV
Solubility	: Water



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