



Blue, HEV and Visible Light Protection

High energy visible (HEV) light, falling between 400 and 500nm, penetrates the lower layers of the skin, leading to premature aging through macular degeneration.



HEV and Blue Light Sources:

- Sunlight
- Computer monitors and laptops
- Smartphones and tablets

Supportable Skincare Claims:

- Blue Light Protection
- HEV Light Protection
- Visible Light Protection

Reporting:

- Percentage Blue Light Blocked
- Blue Light Critical Wavelength
- Percentage HEV Light Blocked
- Percentage Visible Light Blocked

In Vitro Testing:

- Substrate and application according to ISO 24443:2021
- In vivo SPF adjustment
- Sample irradiation for potential photodegradation
- Spectrophotometric measurements from 290 to 850nm

