

Blue Light protectant

# IACTIVE BLUE LIGHT

Extracted from dried petals of calendula. Able to filter high-energy blue light to prevent pigmentation, rough skin and improve skin gloss and elasticity.



## Application

**Benefits:** Detoxifying, Promotes blood, circulation and skin regeneration. Wound healing, Anti-inflammatory and anti-bacterial, Antioxidant.

**Application:** Facial Cleanser, Toner, Essence, Lotion, Cream, Gel, Eye Cream.



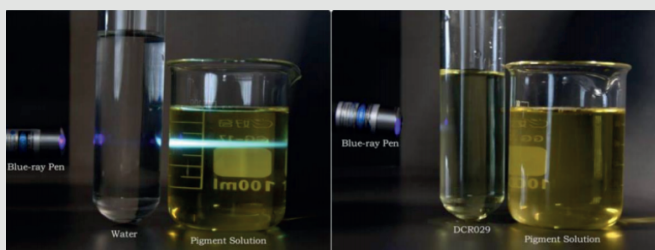
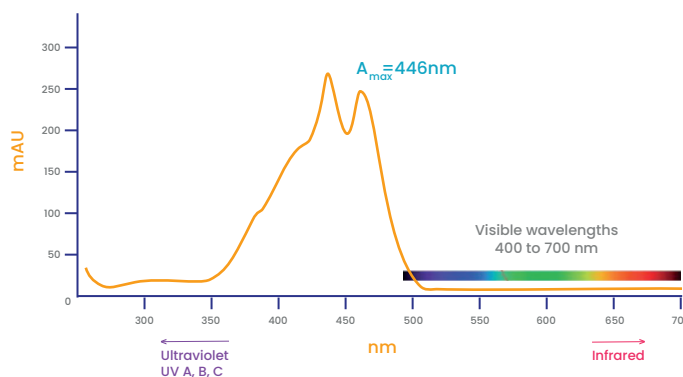
## Mechanism

iActive Blue Light can quench free radicals, and filter harmful high-energy blue light. iActive Blue Light also helps to remove free radicals that cause skin aging; it reduces skin aging caused by sunlight, thereby delaying skin aging, and avoiding sagging skin and wrinkles.

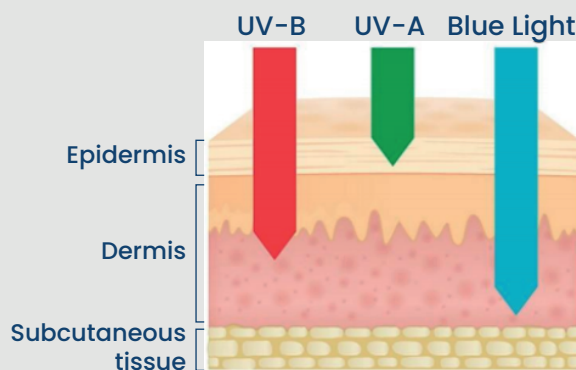


## Skin concerns

Blue light is like ultraviolet light. The damage caused by blue light to skin is firstly photoaging. Blue light can cause skin to become rough, and lead to pigmentation and telangiectasia. Secondly, it causes photo/linear skin diseases, such as polymorphous sunlight eruption, chronic actinic dermatitis. Finally, blue light can exacerbate many skin conditions, including pigmented skin diseases (such as freckles, chloasma), seborrheic dermatitis (such as acne), connective tissue diseases (such as lupus erythematosus, dermatomyositis), skin cancer (basal cell carcinoma, squamous cell carcinoma, etc.)



Left picture shows blue-light passes through yellow-green pigment solution. Right picture shows that strong blue-light is completely absorbed by iActive Blue Light.



# ANTI-INFLAMMATORY AND ANTI-BACTERIAL BENEFITS

iActive Blue Light has anti-inflammatory and anti-bacterial property. It has an inhibitory effect on staphylococcus and streptococcus. iActive Blue Light can relieve sensitive skin. In the early days, it is often used to disinfect wounds, and treat burns and skin infections.

Bacteria	Zone of inhibition ( )mm						
	Extracts			Antibiotics			
	Eth.	Chl.	Pe. G	Nov.	Amp.	Chlor.	Eryt.
S. aureus	38	26	24	32	20	18	12
E. coli	12	8	6	6	26	9	28
B. cereus	28	32	10	25	28	12	15
B. subtilis	24	20	8	13	32	11	30
S. typhimurium	14	10	6	40	6	13	28
P. vulgaris	18	12	10	26	12	9	22
E. faecalis	20	18	24	28	30	18	16
E. cloacae	10	10	12	22	12	11	30
K. rhizophila	16	13	20	28	10	12	15

Eth: Ethanol; Chl: Chloroform;  
Pe: Penicillin; Nov: Novobiocin;  
Amphicilin; Chlor:  
Chloramphenicol; Eryt:  
Erythromycin.



## Technical data

INCI (US)	Calendula Officinalis Flower Extract
INCI (EU)	Calendula Officinalis Flower Extract
Formulations Advice	0.02 –0.1 % in all skin care products. Water soluble.
<b>Physical-Chemical Properties</b>	
Appearance	Fine Powder
Color	Brownishyellow
Odor	Characteristic
Solubility	Water
Loss on drying (%)	< 5.0 < 3.098%
Additives	None

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