

ACB Tonka Bean Bioferment PF



chromatherapy + phototherapy
 blurs wrinkles + fine lines
 ayurveda marketability, protectant
 skin illuminating

BACKGROUND

Selecting the right lighting is all the rage! From camera filters to effects that enhance our appearance, lighting has made its way to the forefront as a means of perfecting skin aesthetics. Depending on the type of light or its direction, light can accentuate imperfections, cause shadows and make fine lines and wrinkles more visible. The isolated polyphenols found in ACB Tonka Bean Bioferment PF allow us to harness the power of UV rays, which typically harm our skin, and use them to emit light in the visible spectrum, increasing the luminescence of our skin. The result is skin that appears bright and less wrinkled. The polyphenols also help to even the skin tone while masking imperfections and providing antioxidant protection from extrinsic damage.

Chromatherapy, or color therapy, is the use of colored light to treat various conditions. Routed in Ayurvedic medicine, holistic findings show that chromatherapy has been practiced in traditional Chinese medicine and dates back to ancient Egyptian times. More recently, studies have shown that blue light exhibits phototoxic effects on the heme metabolism of *Propionibacterium acnes*. This helps inhibit the growth of this bacteria which often results in problem skin. Further research shows that blue light helps improve inflammatory lesions by inhibiting pro-inflammatory cytokines.

Over time, the proteins in our skin cross-link and diminish the refraction of light. This causes our skin to appear dull. Indeed, optical diffusers are used to hide imperfections, however, the usual results do not provide consumers with the desired outcome. Concealers, also used to mask imperfections, tend to settle into wrinkles and fine lines diminishing the skin's natural luminescence.

SCIENCE

By isolating the polyphenols from Tonka Beans, known for their ability to absorb light in the UV range and emit light in the visible spectra, Active Concepts has created a product that is efficaciously able to increase the skin's luminescence while protecting the skin from future damage. This allows us to harness the power

Code Number: 20431PF

INCI Name: Lactobacillus/Dipteryx Odorata Seed Ferment Filtrate

INCI Status: Approved

REACH Status: Conforms

CAS Number: 90028-06-01

EINCS Number: 289-793-4

Origin: Botanical

Processing:

GMO Free

No Ethoxylation

No Irradiation

No Sulphonation

Additives:

Preservatives: None

Antioxidants: None

Other additives: None

Solvents Used: Water

Appearance: Opaque, Viscous Liquid

Soluble/ Miscible: Water

Ecological Information:

100% Biodegradability

Microbial Count: < 100opg,

No Pathogens

Suggested Use Levels: 1.0 - 2.0%

Suggested Applications: Anti-Wrinkle, Chromatherapy, Phototherapy, Protectant, Anti-Aging

Benefits of ACB Tonka Bean Bioferment PF

- Chromatherapy
- Anti-Wrinkle
- Phototherapy
- Protectant
- Anti-Aging Effects
- Ayurveda Marketability

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of UV rays which typically harm our skin and use them to emit light in the visible spectrum to increase luminescence so our skin will not appear as dull and fine lines will not appear as visible. The polyphenols will also help to even our skin tone and mask imperfections while providing antioxidant protection from extrinsic damage, which contributes to aging.

BENEFITS

Efficacy testing for **ACB Tonka Bean Bioferment PF** shows that it is capable of absorbing light in the UVA and UVB spectra. Additionally, fluorometer testing reveals that it is capable of emitting light in violet, green, blue, yellow and red visible light spectra. This study indicates that the product is capable of increasing luminescence so our skin will appear healthy and revitalized.

Chromatherapy or color therapy is the use of colored light to treat various conditions. Recent studies have shown that blue light (420 nm) exhibits phototoxic effects on the heme metabolism of *Propionibacterium acnes* to inhibit this bacteria that causes acne on our skin. Other research has shown that blue light can improve inflammatory lesions by inhibiting pro-inflammatory cytokines. **ACB Tonka Bean Bioferment PF** is water-dispersible so it can be incorporated into a variety of cosmetic and personal care preparations.

EFFICACY

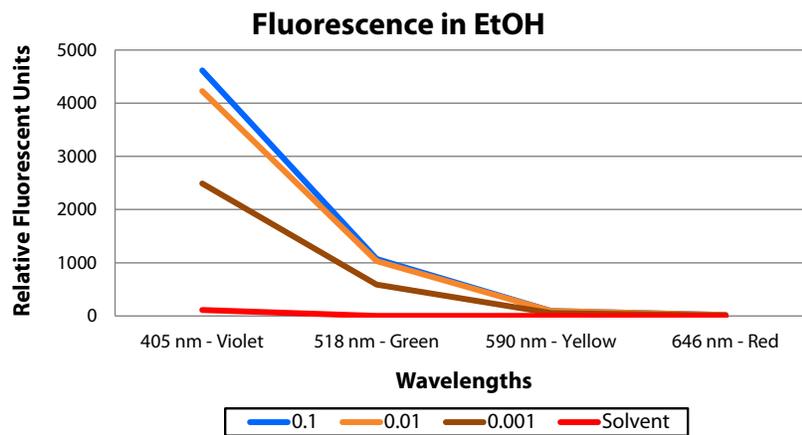


Figure 1. Fluorescence of light after dispersing **ACB Tonka Bean Bioferment PF** in Ethanol.

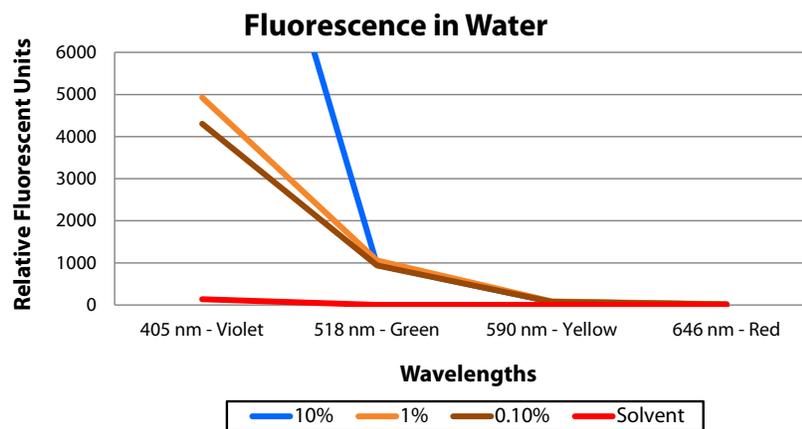


Figure 2. Fluorescence of light after dispersing **ACB Tonka Bean Bioferment PF** in water. Fluorescence at the 10% concentration was above the detectable limits of the fluorometer.

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