



# AC Pina Colloida

INCI: Water & Ananas Sativus (Pineapple) Fiber Crosspolymer & Lactobacillus Ferment

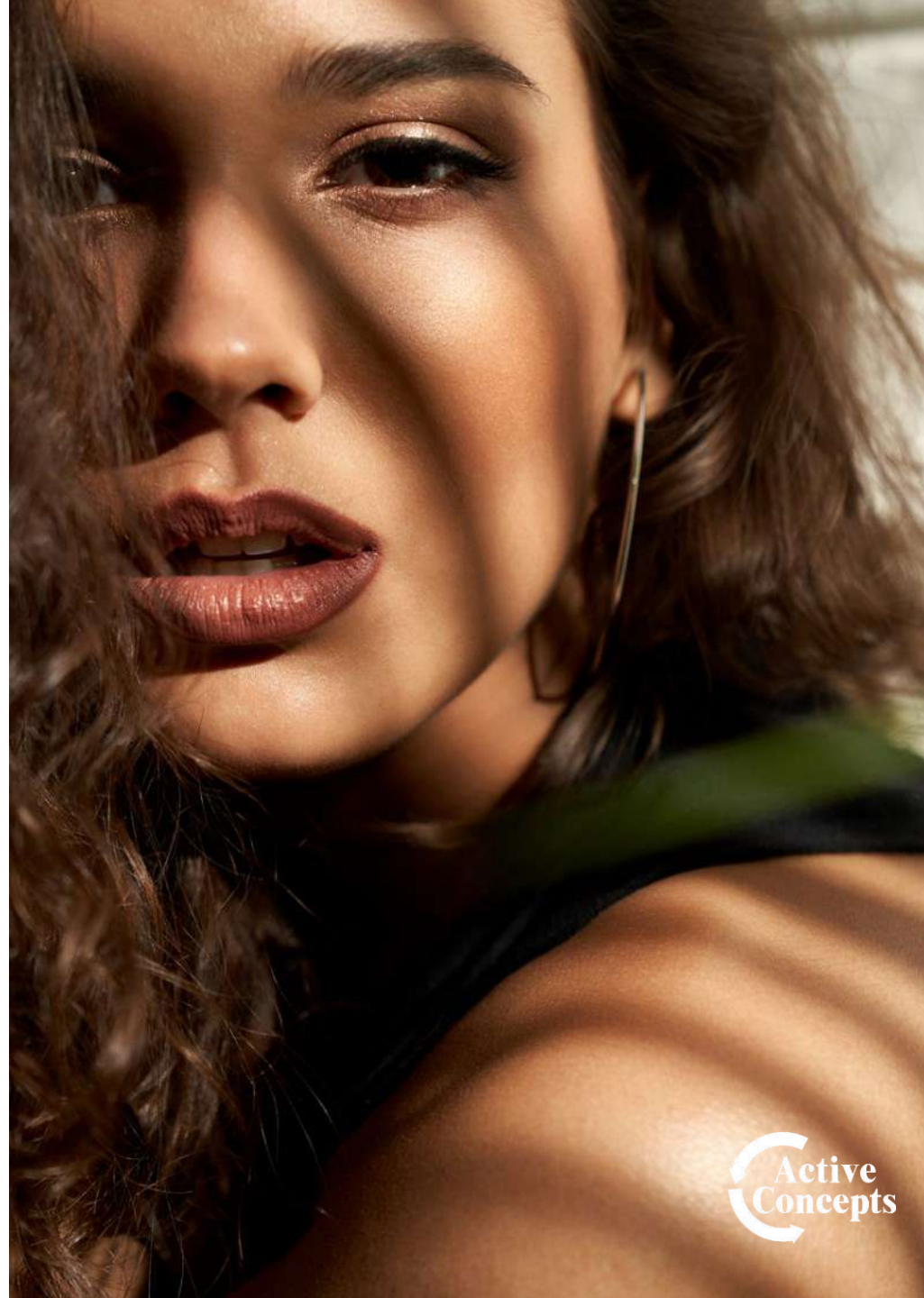


# AC Pina Colloida

New beauty protection against global warming: a film-forming pineapple biopolymer, safeguarding both skin and hair while promoting environmental sustainability. AC Pina Colloida repurposes pineapple crown leaf waste to create a shield against environmental factors with a cross-linking technology based on yeast, addressing environmental pollution and contributing to a greener future.



*Natural Biopolymer | Environmental Protection | Moisturization*



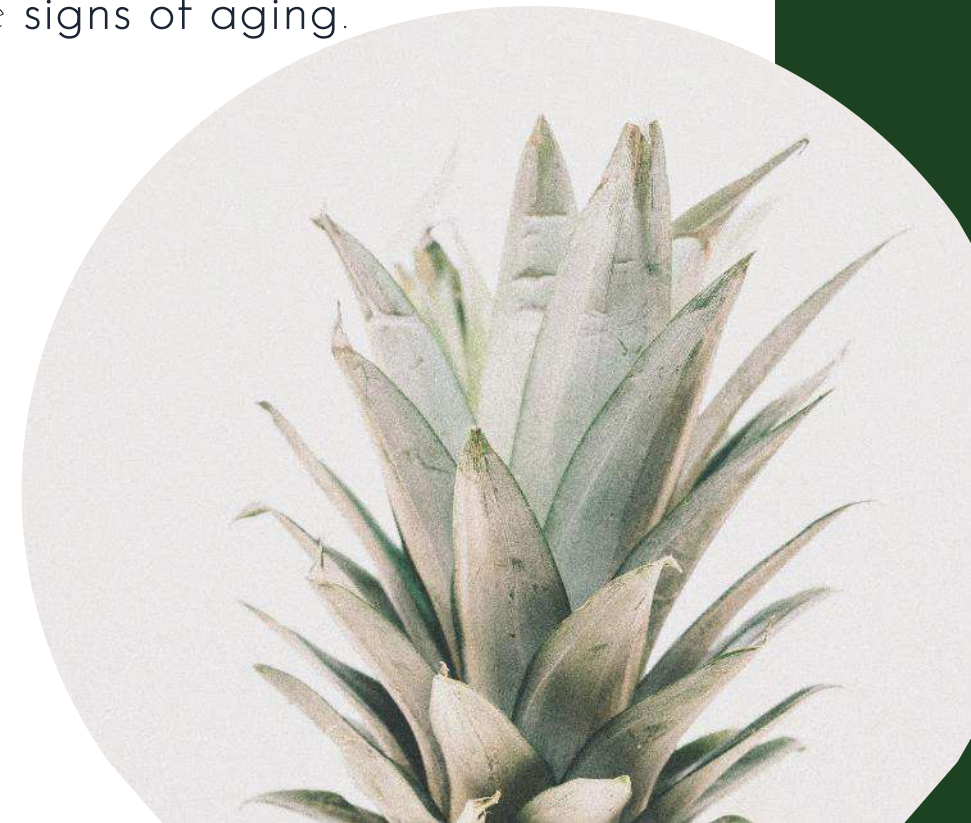


# Benefits

+ AC Pina Colloida is a new biopolymer that improves the skin's protective barrier function, helping to lock in moisture and prevent micro-pollution attacks. By working on the dermal-epidermal junction integrity, it could prevent visible signs of aging.

+ AC Pina Colloida enhances the structural integrity of hair by preventing the harmful effects of UV irradiation resulting in healthier hair.

+ AC Pina Colloida demonstrates effective pigment dispersing properties which improves overall skin coverage and product appearance.





## Compatibility

### Xanthan Gum

Compatible at 5% - increases viscosity (by 45% in our trial)

### Guar Hydroxypropyltrimonium Chloride

Clear/slightly hazy at 5% - decreases viscosity (by 23% in our trial, may be partially due to dilution effect)

### Carbopol (Ultrez 10)

Slightly hazy at 5% - decreases viscosity (by 31%, may be more partial incompatibility effect due to hazy appearance)

### SDA-40

We successfully added approximately 40% alcohol into a 10% Pina Colloida solution.

### Hyaluronic Acid

We successfully added approximately 10% of a 1% HYA solution to a 10% Pina Colloida solution.

# Formulation



# Summary

## WHAT.

Cosmetic formulations utilize diverse raw materials, including **biopolymers**, to shield the body from environmental factors. Our aim was to develop an **eco-friendly solution** using **natural polymers** sourced sustainably.

## WHY.

The rise in **global temperatures**, leading to record highs, directly impacts skin and hair quality as well as aging. **Pollution** and **waste reduction** are increasingly crucial concerns in our daily management.

## MADE OF.

Inspired by **cellulose-based** polymers and PALF technologies, our focus on **waste reduction** led to exploring **pineapple crowns**, resulting in AC Pina Colloida. Our **biofermentation** expertise helped us in crafting this **upcycled natural active** delicately.

## ACTION.

AC Pina Colloida **prevents visible signs of aging** by enhancing dermal-epidermal junction integrity and providing **moisturizing** benefits. It also **protects hair** from UV damage, improving hair health, and disperses pigment effectively, **enhancing** skin coverage and **product appearance**.







# Active Concepts



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