

# AC Marine Collagen PF

Hydration + Conditioning

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**Tomorrow's Vision... *Today!*<sup>®</sup>**

# AC Marine Collagen PF

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## Technical Information:



**Product Code:** 20739

**INCI Name:** Soluble Collagen

**INCI Status:** Conforms

**Suggested Use Levels:** 1.0 – 10.0%

**Suggested Applications:** Hydration, Conditioning

# AC Marine Collagen PF

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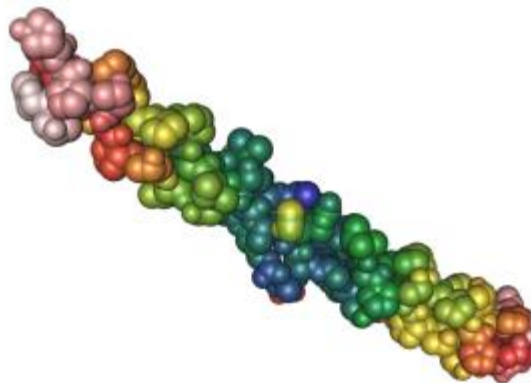
- Collagen has become the topic of daily conversation!
  - Improving the skin and lips natural collagen structure
  - Introducing new collagen through invasive injections
- **AC Marine Collagen PF** consists of:
  - Fish derived soluble collagen
  - Excellent hydrating properties
  - Film forming benefits in a safe, reliable manner

# AC Marine Collagen PF

## Science



- Collagen is created by fibroblasts, specialized cells found in the dermal layer of the skin
- Fibroblasts are responsible for the production of collagen, elastin, and fibronectin that act as the structural support beams within the skin
- Fibroblasts synthesize collagen within the cell and release it through exocytosis
  - A process by which molecules diffuse through the cell membrane
- Once outside the cell, the collagen molecules will self-assemble, creating the same structures found in skin



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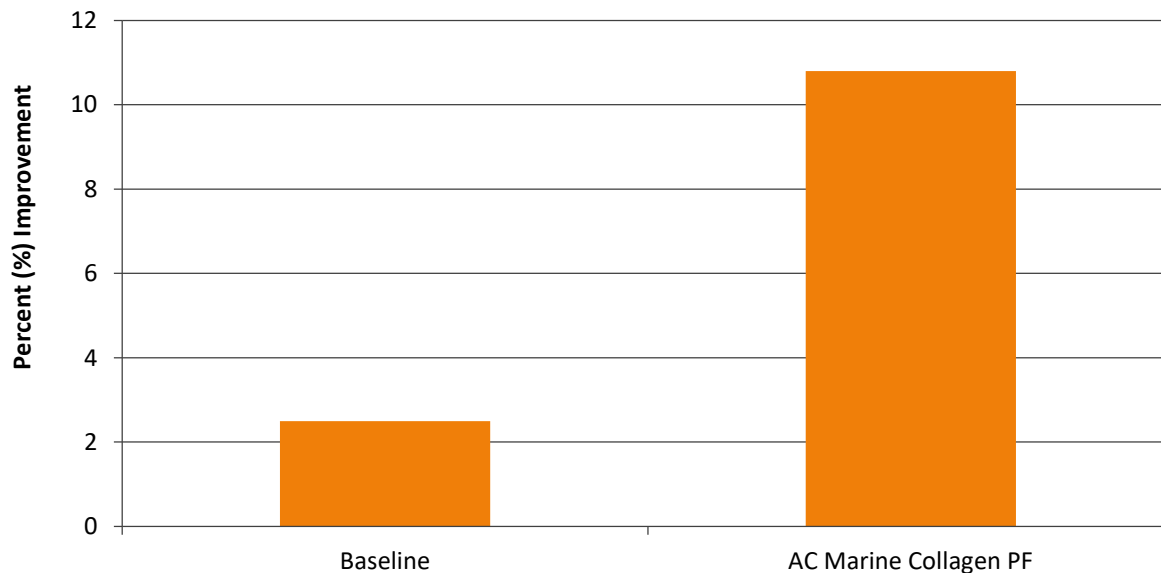
## Benefits



- Restore one's youthful appearance by hydrating the skin and helping to increase its natural collagen production
- Can be easily incorporated into the water phase
- Can be used in a wide variety of personal care formulas
- Marine collagen is capitalizing on what is arguably the most profound trend in cosmetics in the last decade

# AC Marine Collagen PF

## Improvements in Hydration



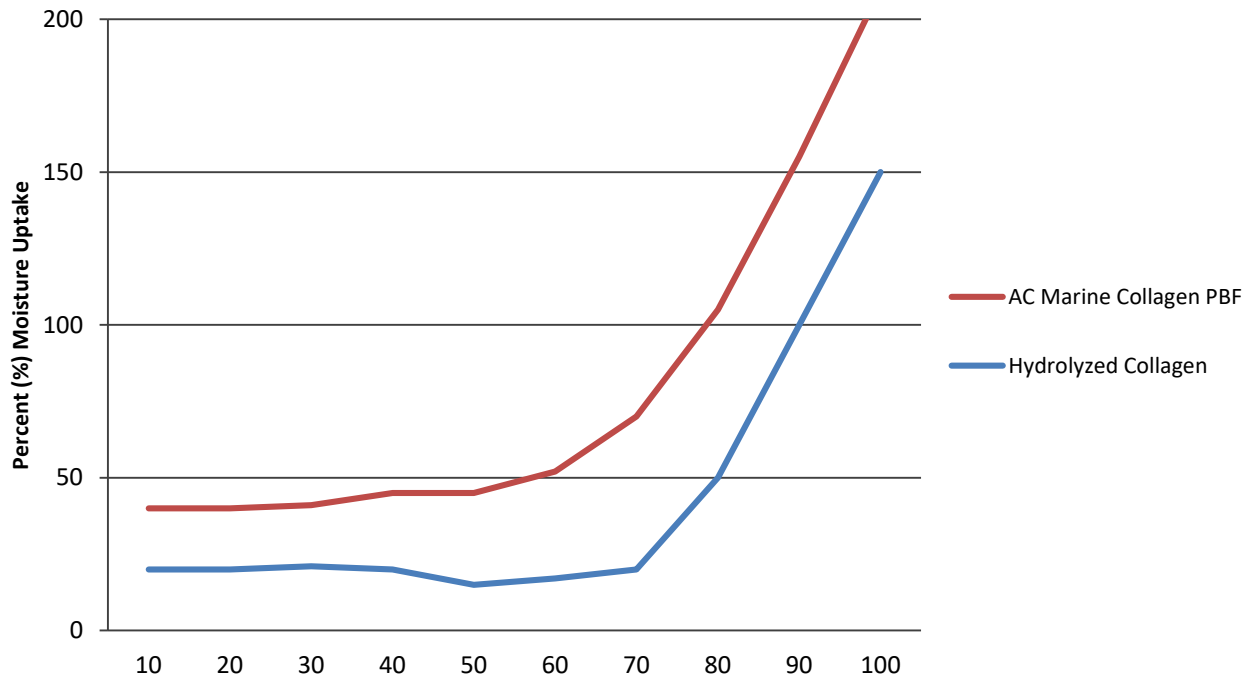
### Protocol

- 2 week study with 10 M/F
- Concentration: 5.0%
- Applied on volar forearms twice daily
- Improved skin hydration by 12%
- Enhance hydration levels for both skin and scalp care

**Figure 1.** Percent improvement in hydration following application of **AC Marine Collagen PF**.

# AC Marine Collagen PF

## Moisturization Assay



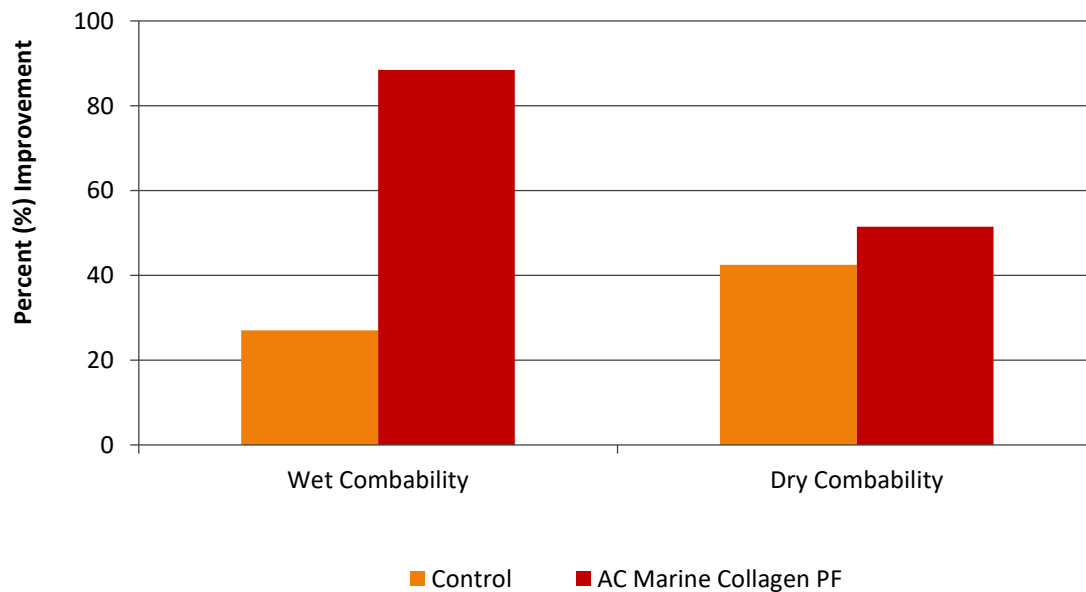
### Protocol

- **AC Marine Collagen PF** is capable of increasing stratum corneum moisturization values after 1 hour
- **AC Marine Collagen PF** may be added to anhydrous systems to effectively increase epidermal moisture

**Figure 2.** Percent increase in moisturization following application of **AC Marine Collagen PF**.

# AC Marine Collagen PF

## Improvements in Combatability



### Protocol

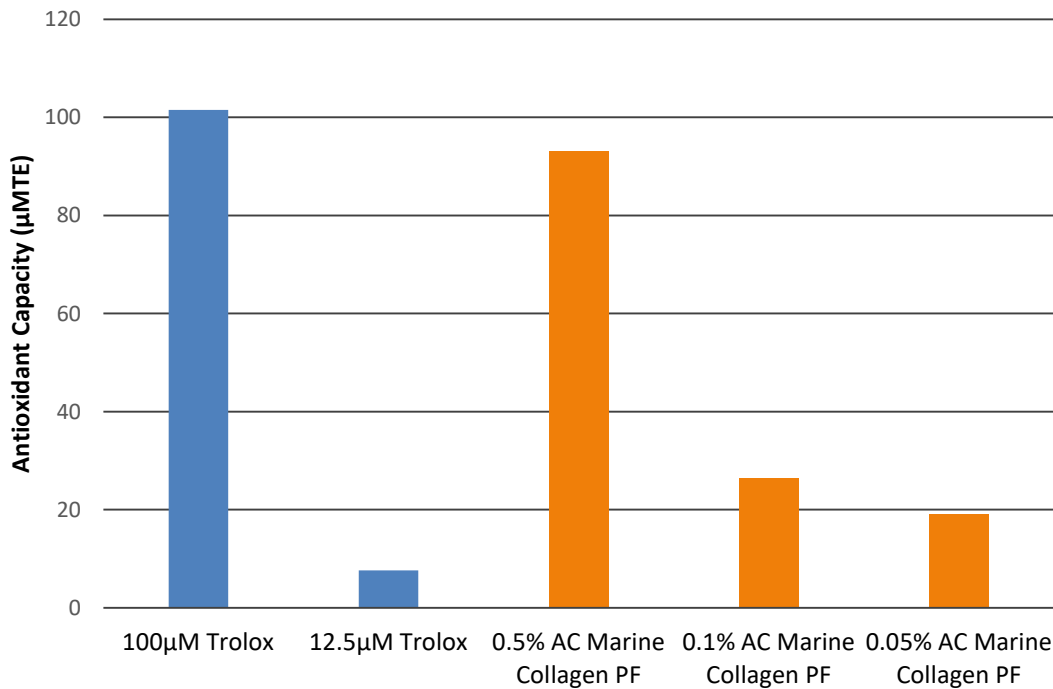
- Concentration: 5.0%
- Increased the sensorial perception of wet combing ease by 90.0%
- Participants rated the control as increasing combability by 40.0% and the test material as increasing dry combability by 50.0%
- Useful for preventing damage and breakage which typically results from excessive combing forces during styling

Figure 3. Percent change in Combability.



# AC Marine Collagen PF

## ORAC Assay



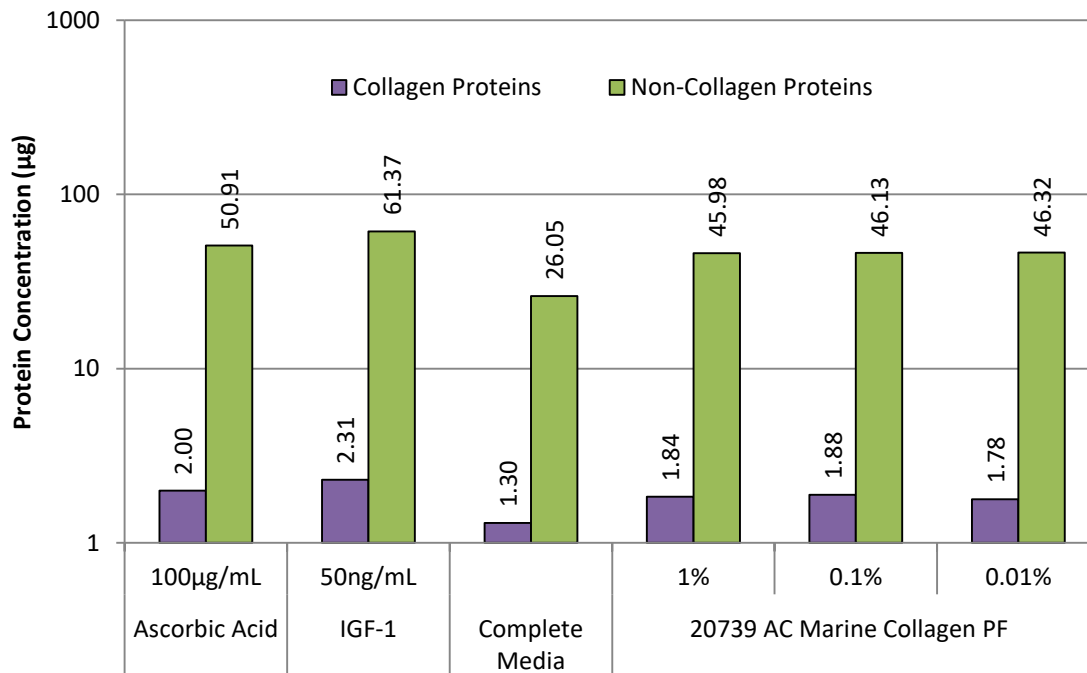
### Protocol

- **AC Marine Collagen PF** exhibited antioxidant activity comparable to 100µM Trolox®
- **AC Marine Collagen PF** increased as the concentration increased, as a result we can assure that its ability to minimize oxidative stress is dose dependent
- Ingredient is not only capable of providing functional benefits but it is also capable of providing potent antioxidant benefits when added to cosmetic applications

Figure 4. Antioxidant capacities.

# AC Marine Collagen PF

## Sirius Red Fast Green Report



### Protocol

- Human dermal fibroblasts were seeded into 24-well tissue culture plates
- AA2G and IGF-1 were used as positive controls
- Concentrations: 1.0%, 0.1%, 0.01%
- **AC Marine Collagen PF** exhibited positive collagen synthesis activity
- The increase in collagen production may lead to improvement in the dermal-epidermal junction integrity as well as an improved scaffolding matrix

Figure 5. Collagen and non-collagen protein concentrations.

# AC Marine Collagen PF

## Sirius Red Fast Green Report

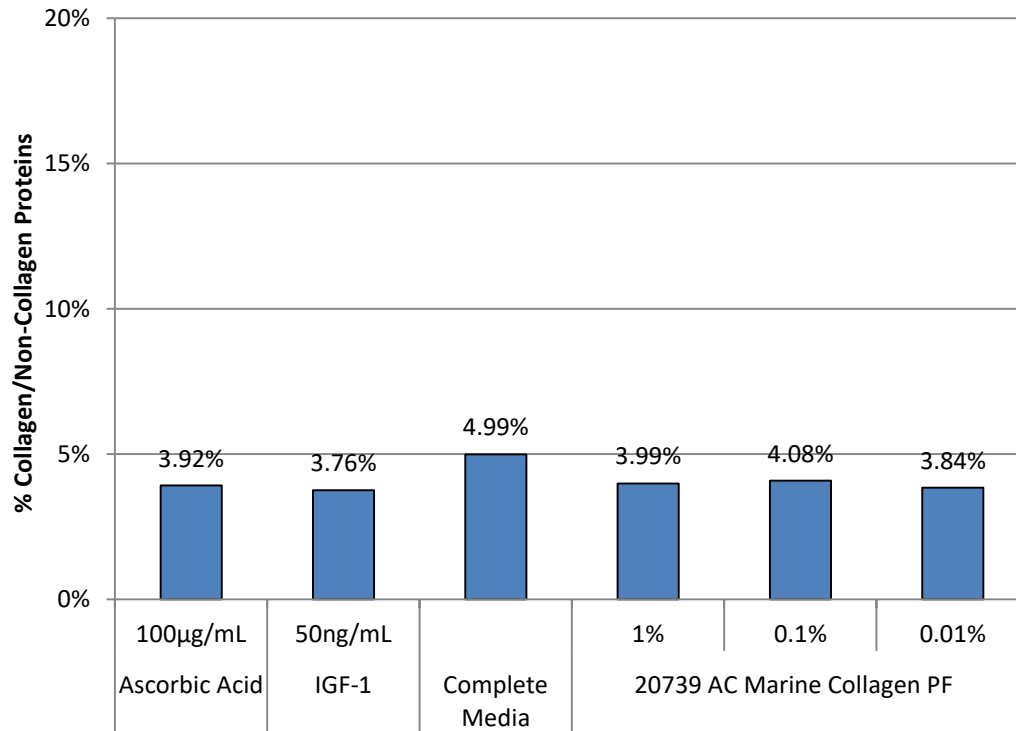


Figure 6. Percent collagen compared to non-collagen proteins.

### Protocol

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## THANK YOU

Please visit and register to use our new website at

[www.activeconceptsllc.com](http://www.activeconceptsllc.com)

When you register, you will have access to the complete product documentation available.