

AC Marine Collagen PF

Hydration + Conditioning



Tomorrow's Vision... *Today!*[®]

AC Marine Collagen PF



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



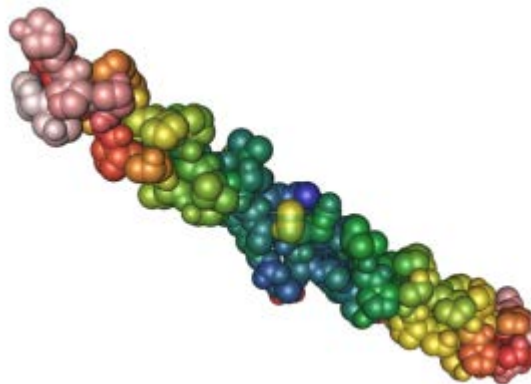
- Collagen has become the topic of daily conversation!
 - Improving the skin and lips natural collagen structure
 - Introducing new collagen through invasive injections
- **AC Marine Collagen PF** consists of:
 - Fish derived soluble collagen
 - Excellent hydrating properties
 - Film forming benefits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



AC Marine Collagen PF

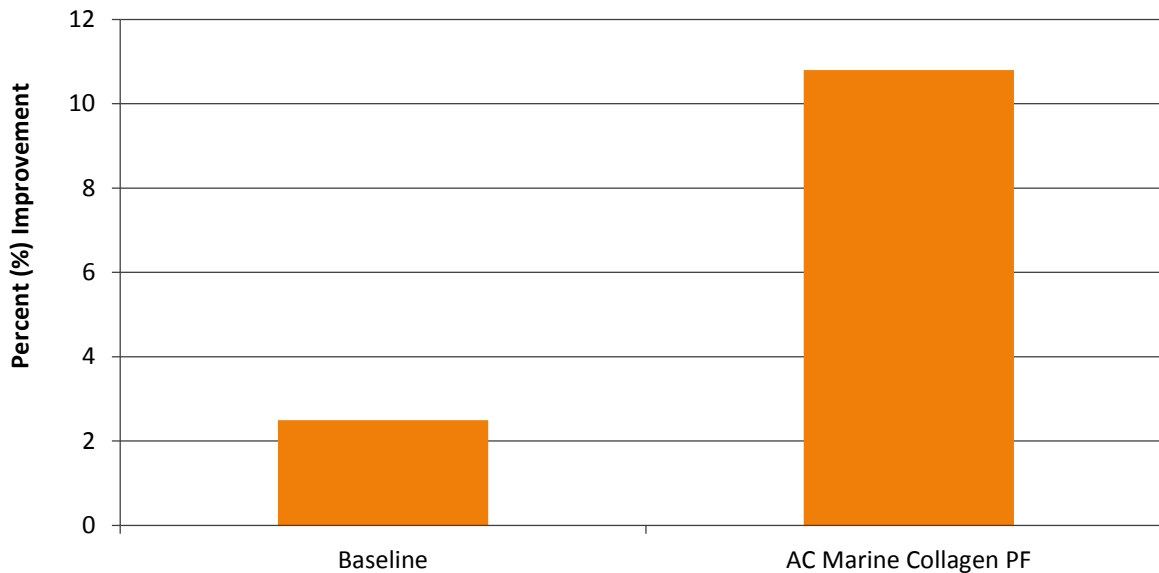
Benefits



- 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



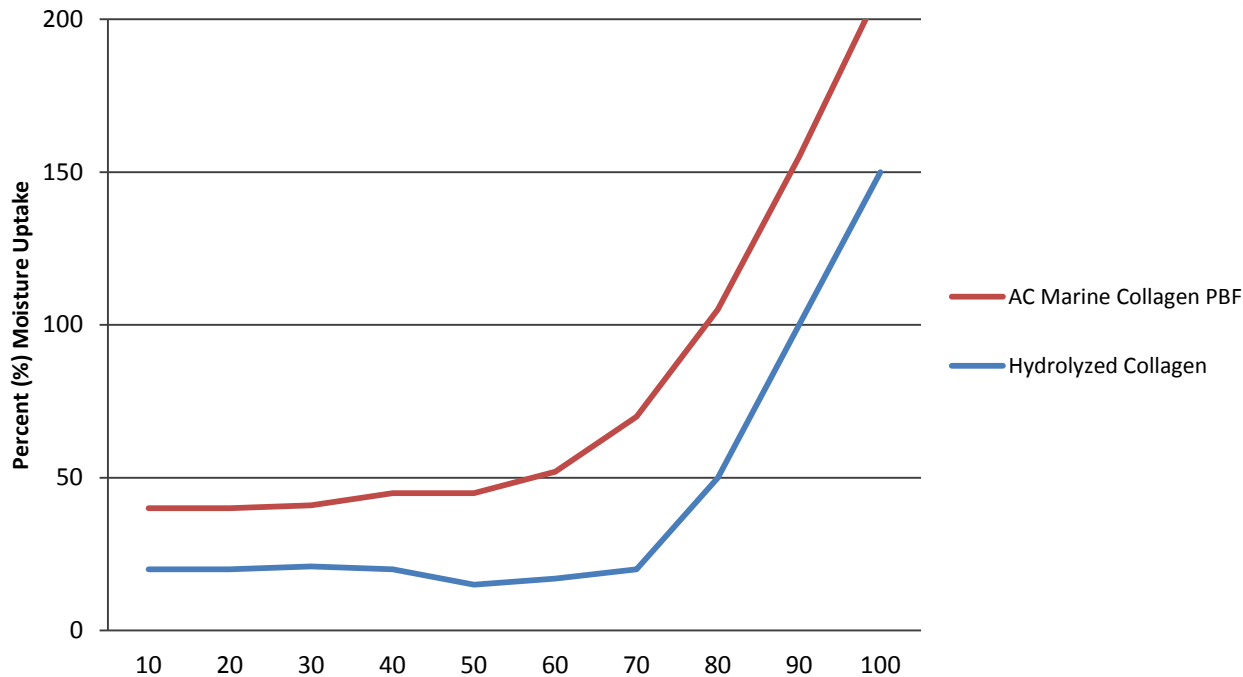
Protocol

- 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



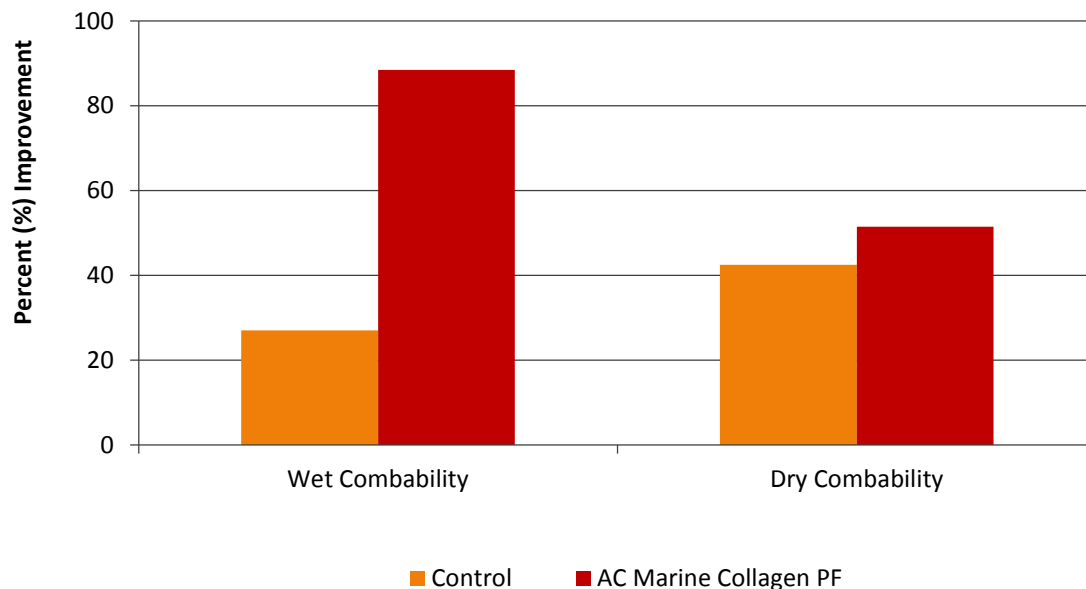
Protocol

- **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**.

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Improvements in Combability



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

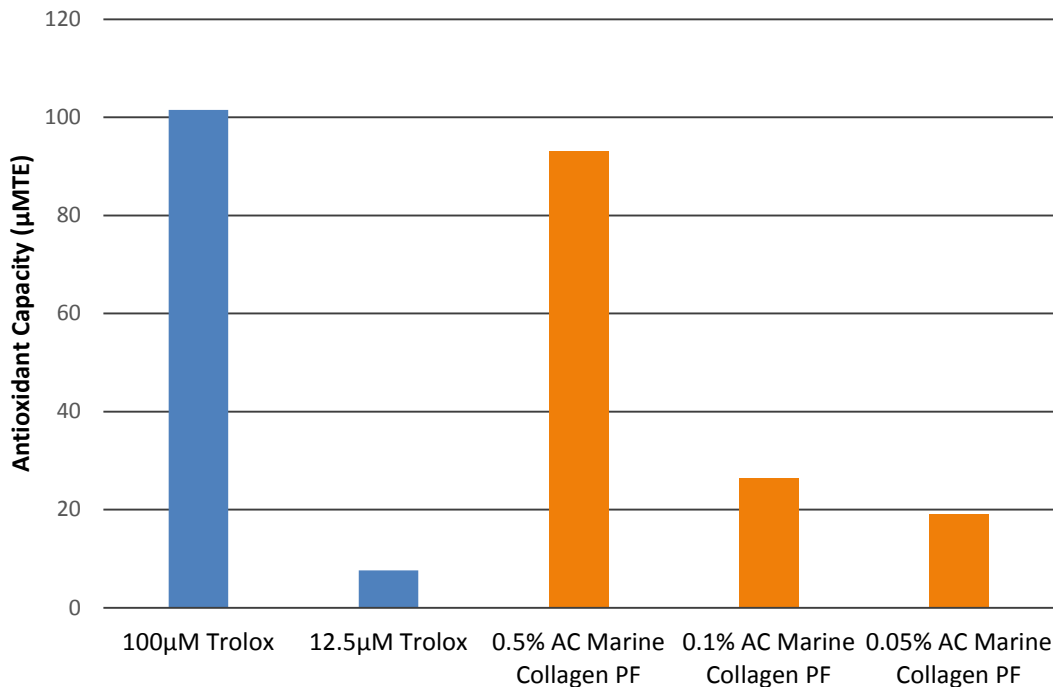


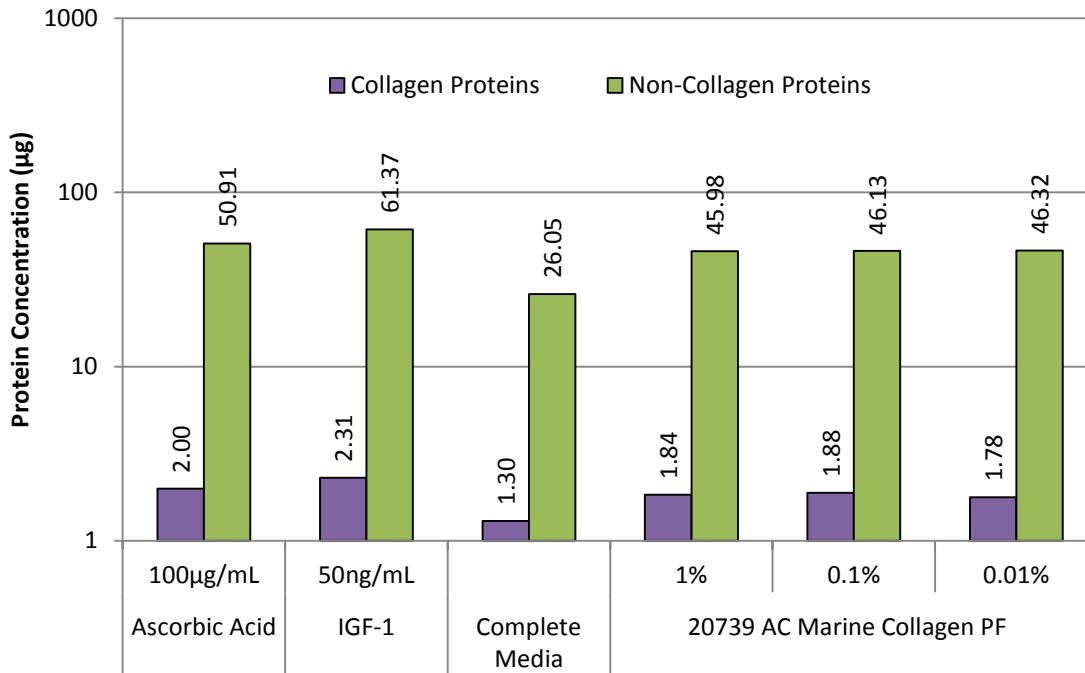
Figure 4. Antioxidant capacities.

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

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.

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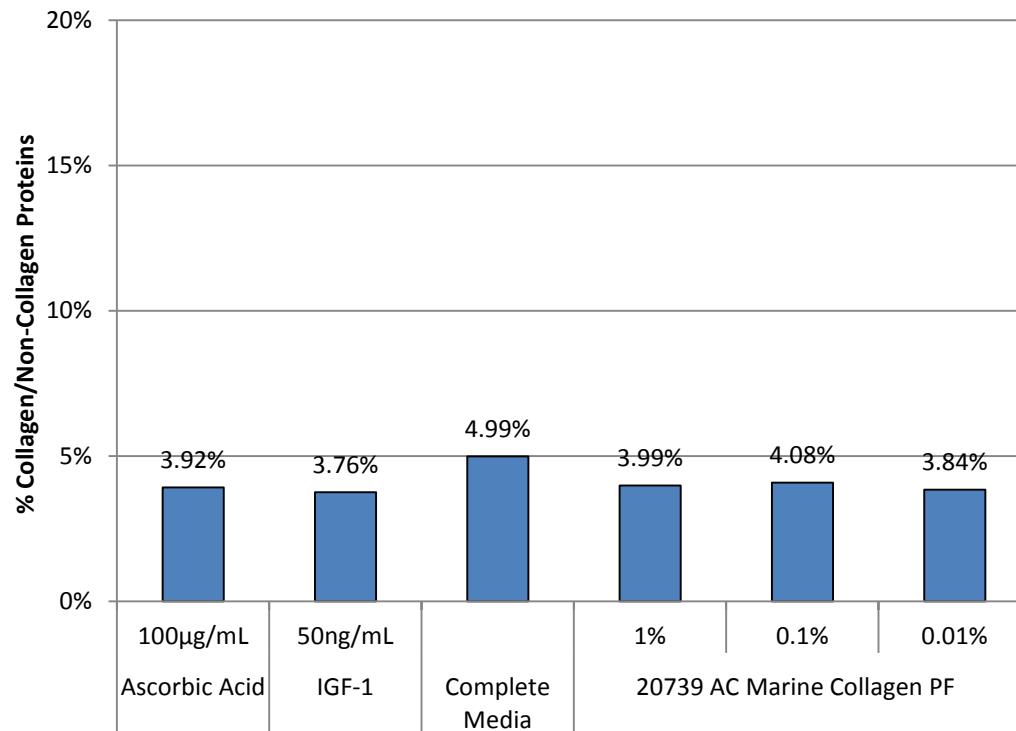


Figure 6. Percent collagen compared to non-collagen proteins.

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ACTIVE CONCEPTS LLC



THANK YOU

Please visit and register to use our new website at

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