

# AC Soluble Elastin PF

Antimicrobial + Exfoliating + Problem Skin

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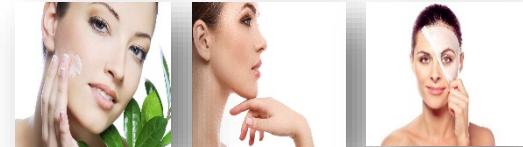
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# AC Soluble Elastin PF

## Technical Information



**Code:** 20595PF

**INCI Nomenclature:** Hydrolyzed Elastin

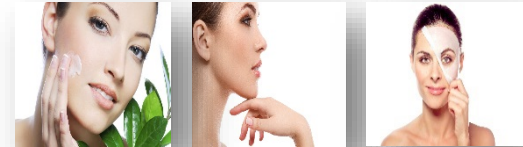
**INCI Status:** Conforms

**Suggested Use Level:** 1.0 - 10.0%

**Suggested Application:** Antimicrobial, Exfoliating, Problem Skin

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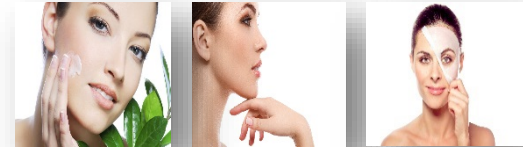
## Science



- Elastin is critical in combatting the signs of aging
- Large fibrous protein is formed through spiral filaments
  - Can stretch upwards of 1.5 times their length
  - Elasticity to snap back to original conformation
- Elastin is primarily composed of amino acids and is essential for our bodies' framework, allowing tissues to regain their original shape
  - Amino acids have interlinking chains, responsible for elastin's flexibility
- Flexible chain allow for formation of a flexible film on the surface of skin and hair
  - Help retain moisture and enhances suppleness

# AC Soluble Elastin PF

## Benefits

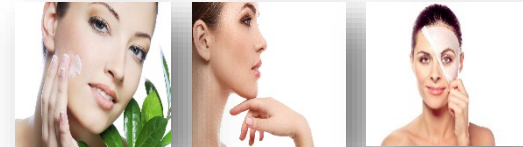
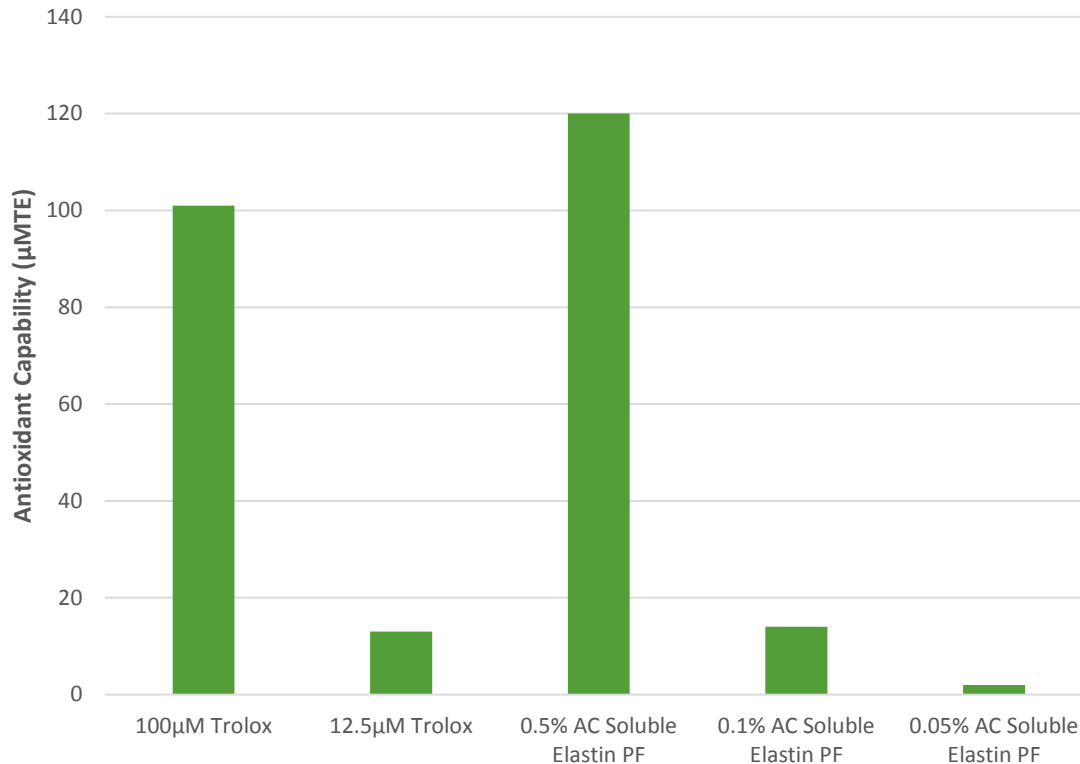


- **AC Soluble Elastin PF** is a natural and critical component for products that intend to smooth, moisturize, and improve overall appearance
- Strong film-forming properties diminish the appearance of fine lines and wrinkles
- Works with problem skin
- Natural antioxidant



# AC Soluble Elastin PF

## ORAC Assay

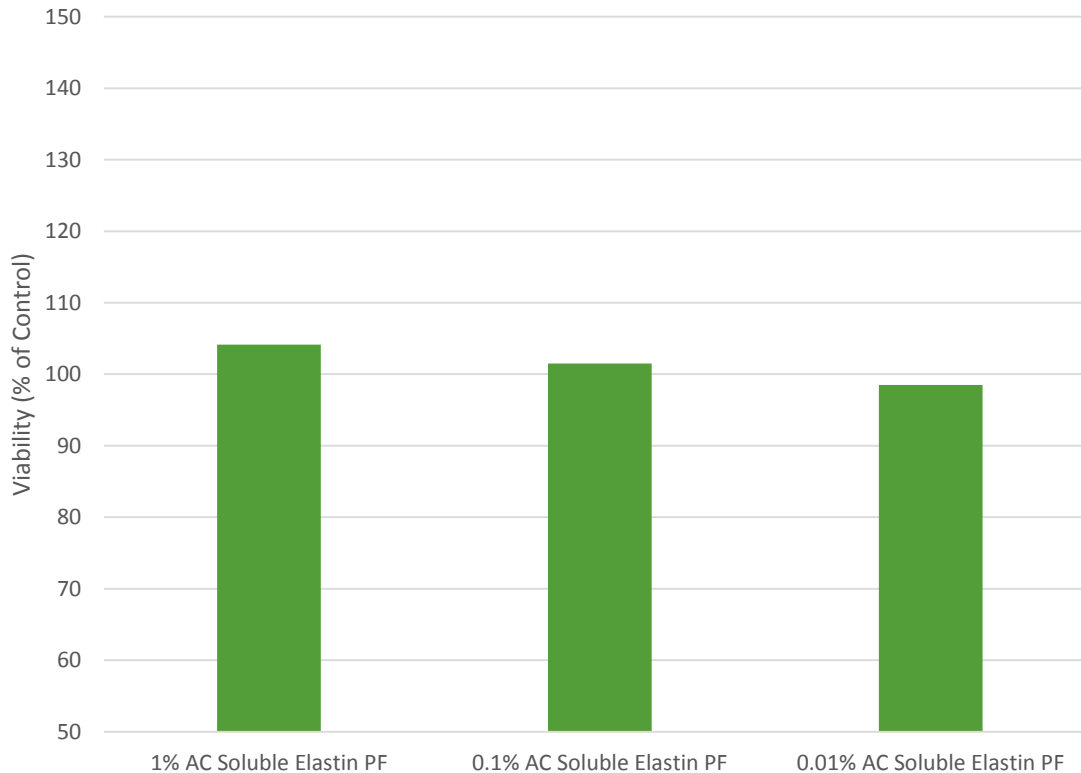
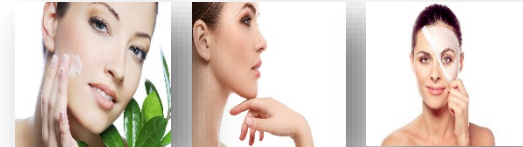


### Protocol

- Solutions of **AC Soluble Elastin PF** and Trolox® (positive control) were prepared in 75mM potassium phosphate buffer
- Concentrations: 0.05%, 0.1%, 0.5%
- 25µL of test material & Trolox® were combined with 150µL of fluorescein in 75mM potassium phosphate buffer & incubated in the Synergy HT Microplate reader at 37°C for 30 minutes
- **AC Soluble Elastin PF** began exhibiting antioxidant activity at a 0.05% concentration

# AC Soluble Elastin PF

## Cellular Viability Assay



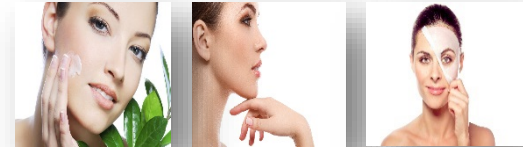
### Protocol

- Human dermal fibroblasts were seeded into 96-well tissue culture plates and allowed to grow to confluency in complete serum-free media
- Concentrations: 0.1%, 0.01%, 1.0%
- Ten microliters of viability reagent was added to 90 $\mu$ L of cell culture media in culture wells
- Can be concluded that at normal use concentrations **AC Soluble Elastin PF** is not cytotoxic

**Figure 2.** Cellular Metabolism of **AC Soluble Elastin PF**-treated fibroblasts

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