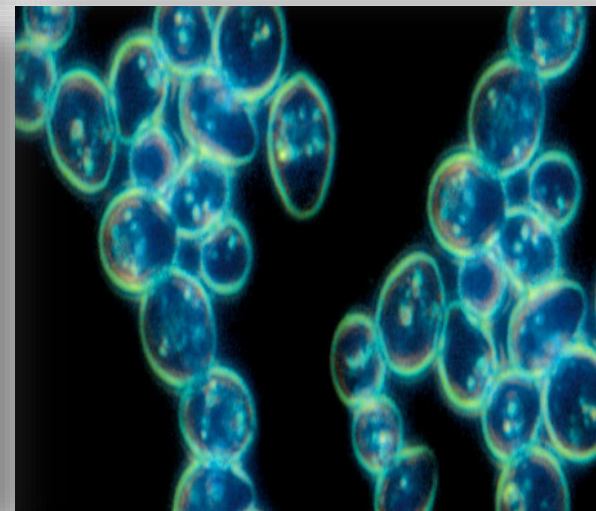
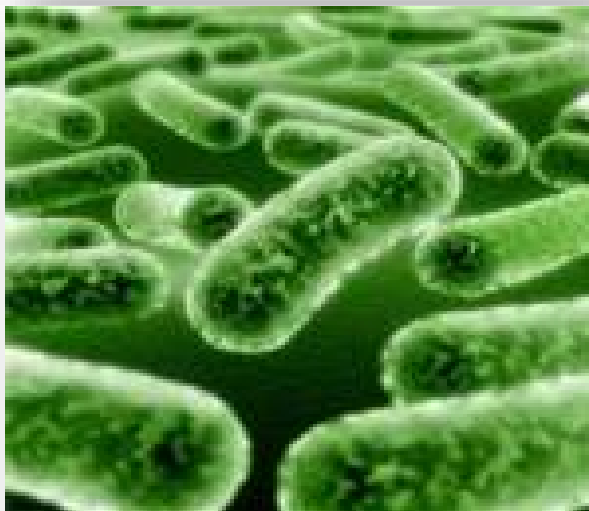
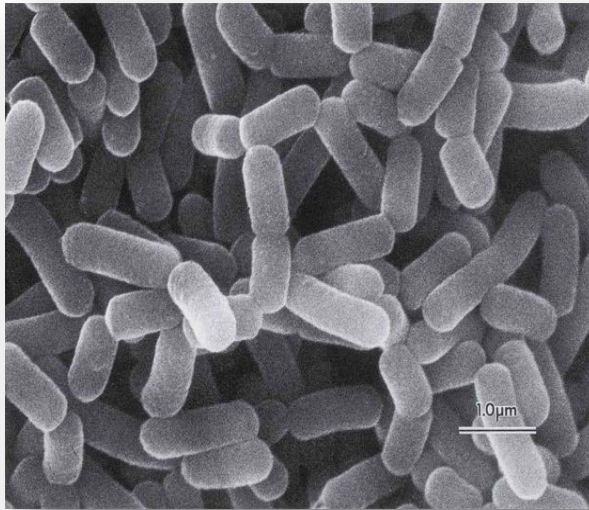
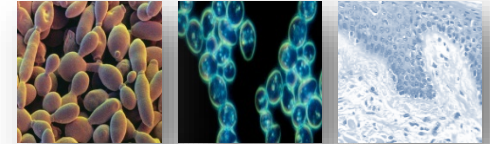


AC DermaPeptide Toning PF

Anti-Wrinkle + Toning + Elasticity



AC DermaPeptide Toning PF



Technical Information

Code: 20455PF

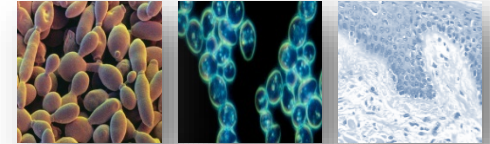
INCI Name: Water & Yeast Extract

Status: Conforms

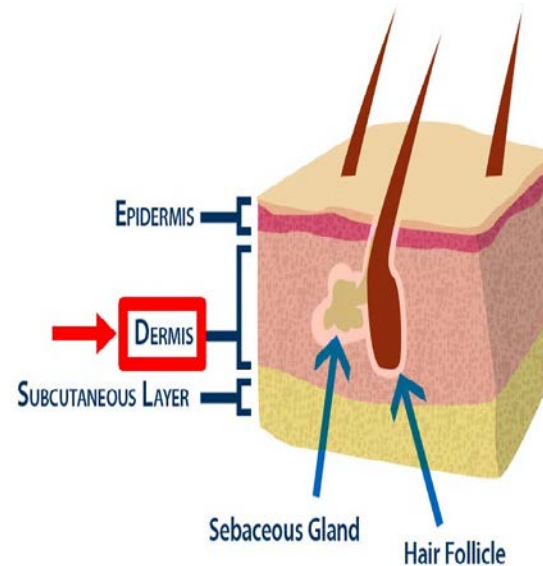
Suggested Use Levels: 2.0 – 5.0%

Suggested Applications: Anti-wrinkle, Toning, Elasticity

Epidermis

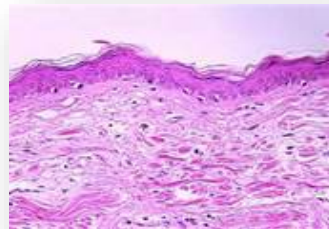
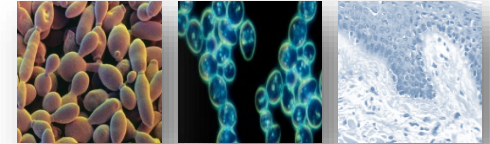


- Dermis-underneath the 5 layers of the epidermis
- Provides oxygen & nutrients for the skin
- Dermal Epidermal Junction (DEJ)
 - Vital for communication of the epidermis & the dermis
 - Roles-cellular differentiation, migration, proliferation & repair

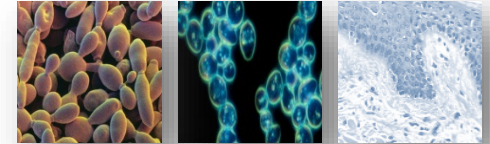


Dermal Epidermal Junction

- The point at which the epidermis & dermis meet
- Relies on the dermis for oxygen & nutrients
- Involved in inflammatory response mechanisms
- Constructed of collagen types IV & VII, glycoproteins and other proteins
- The condition of the DEJ directly affects the skin characteristics:
 - Appearance
 - Wrinkle Formation
 - Elasticity
 - Tone



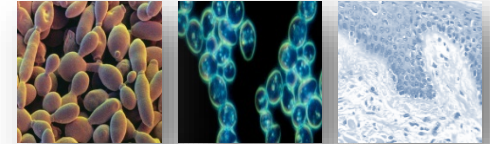
AC DermaPeptide Toning PF



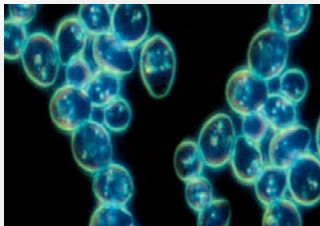
- **AC DermaPeptide Toning PF** is created by isolating a specific peptide sequence from yeast
- Can improve the integrity of the DEJ
- Increases the synthesis of the DEJ components
- Improves appearance of the complexion
- Increases tone and elasticity
- Decreases the appearance of fine lines and wrinkles

Efficacy Data

In-vivo Study



- 6 (M/F) volunteers between the ages of 32 and 58.
- Volunteers applied 5% **AC DermaPeptide Toning PF** to the volar forearms.
- Equipment: SEM 575 Cutometer equipped with suction probe
- Length of Study: Applied twice daily for 28 days.
- Determined changes in epidermal fatigue, toning and elasticity



Efficacy Data

Improved Skin Tone

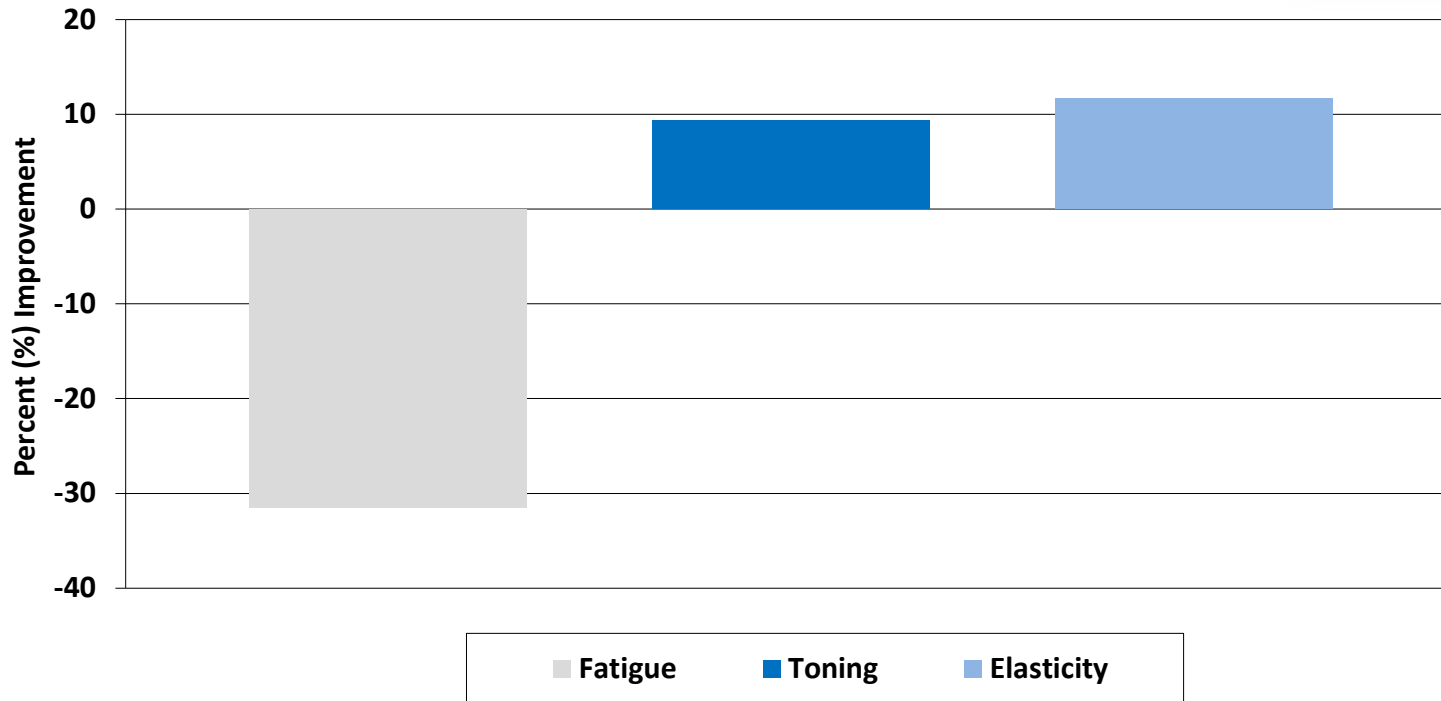
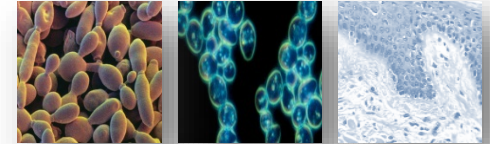
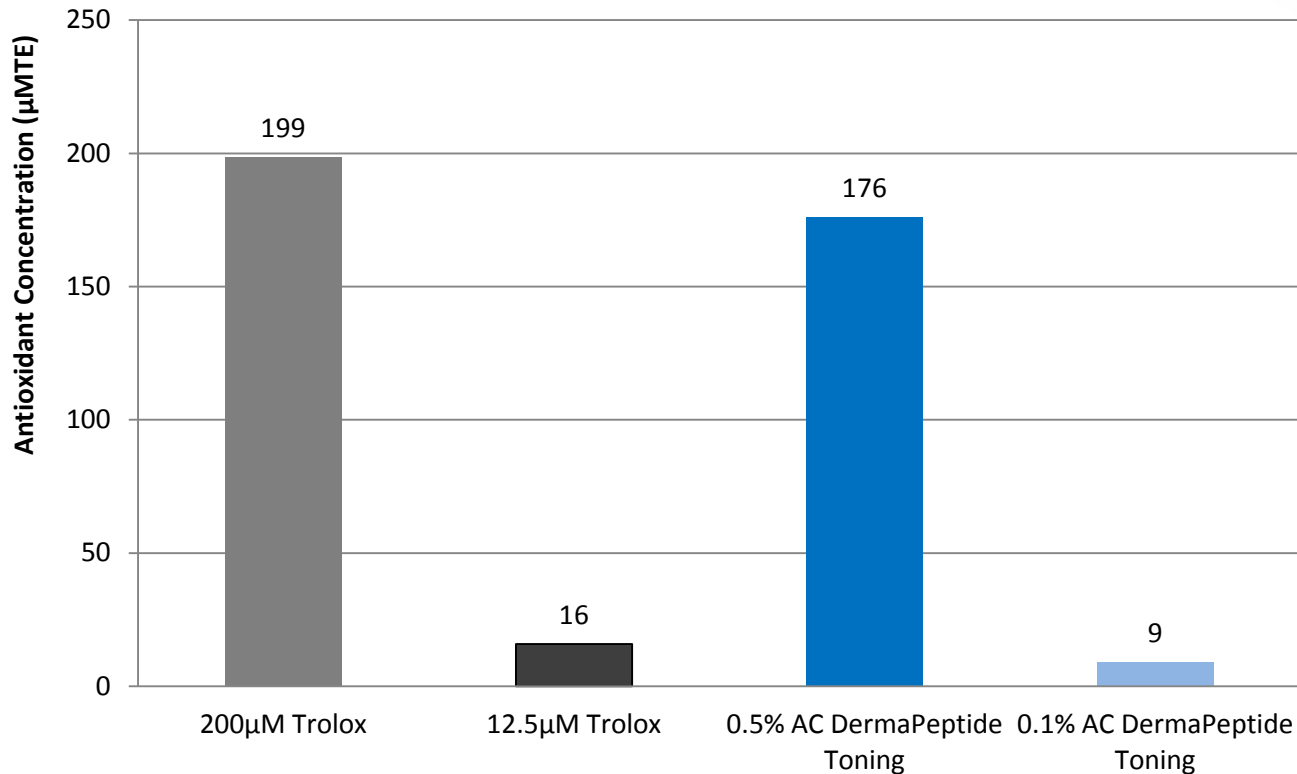
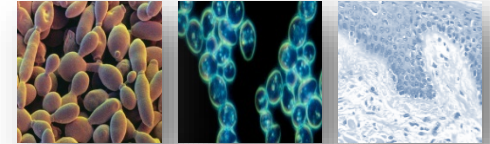


Figure 1. Improvements in skin characteristics following application of AC DermaPeptide Toning PF.

Efficacy Data

ORAC Assay



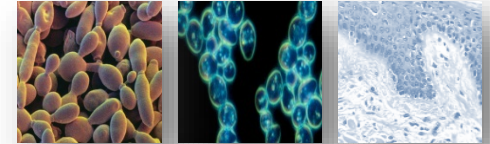
Protocol

- Trolox was used as the positive control
- Solutions were prepared at three concentrations as a reference
- Fluorescent measurements were taken every two minutes for two hours
- **AC DermaPeptide Toning PF** showed antioxidant activity at 0.1% concentrations

Figure 2. AC DermaPeptide Toning PF showed antioxidant activity at 0.1%.

Efficacy Data

In-vitro Study



- Studies were conducted involving fibroblasts cultured in fibroblast-cultured medium & grown on glass slides
- Equipment: Compound Light Microscope
- Cultures were incubated with 2.0% **AC DermaPeptide Toning PF** in the presence of 5% CO₂ for 72 hours
- The DNA expression for fibroblasts treated with 2% **AC DermaPeptide Toning PF** were compared to those treated with TGF-b1 and b-actin mRNA

Efficacy Data

Collagen IV mRNA Expression

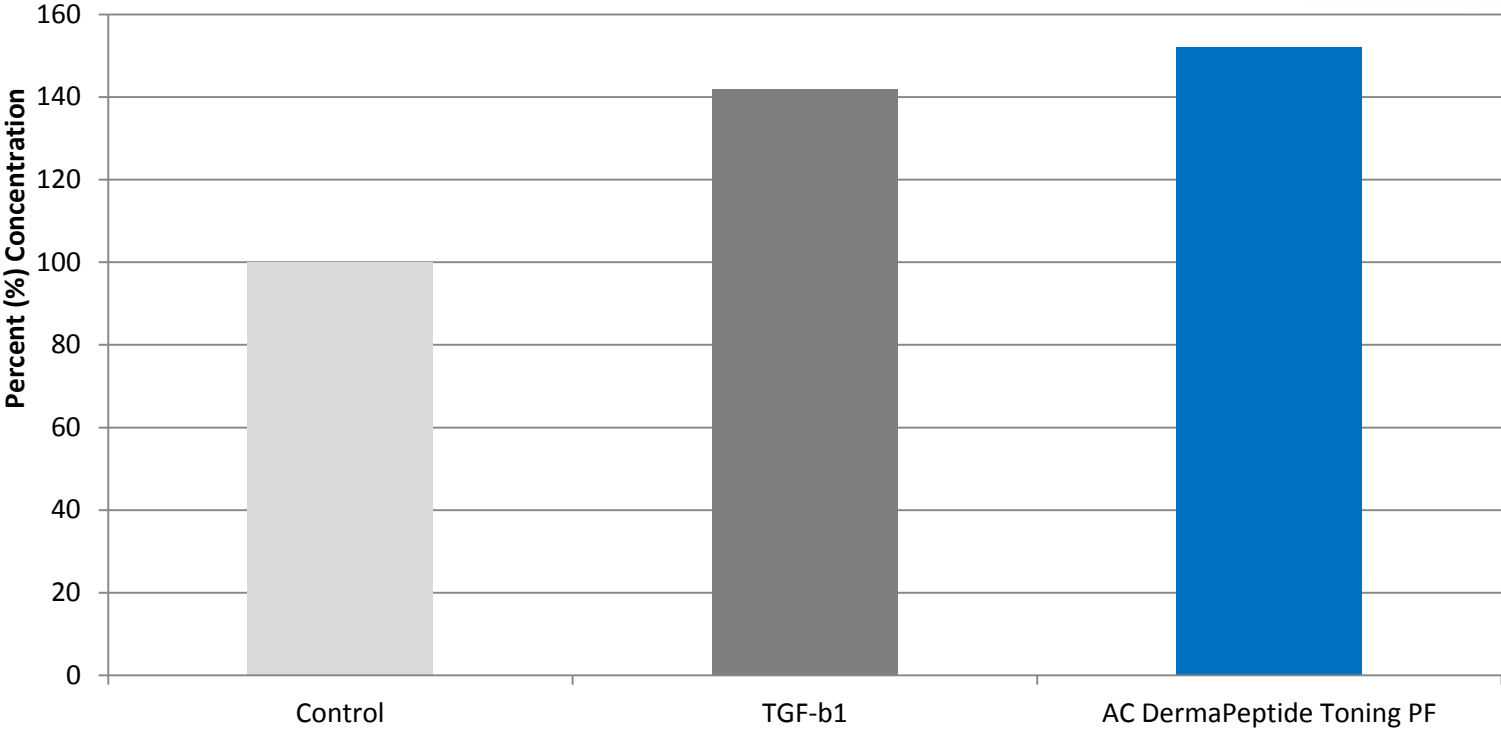
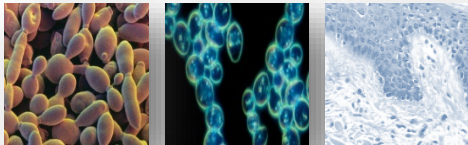
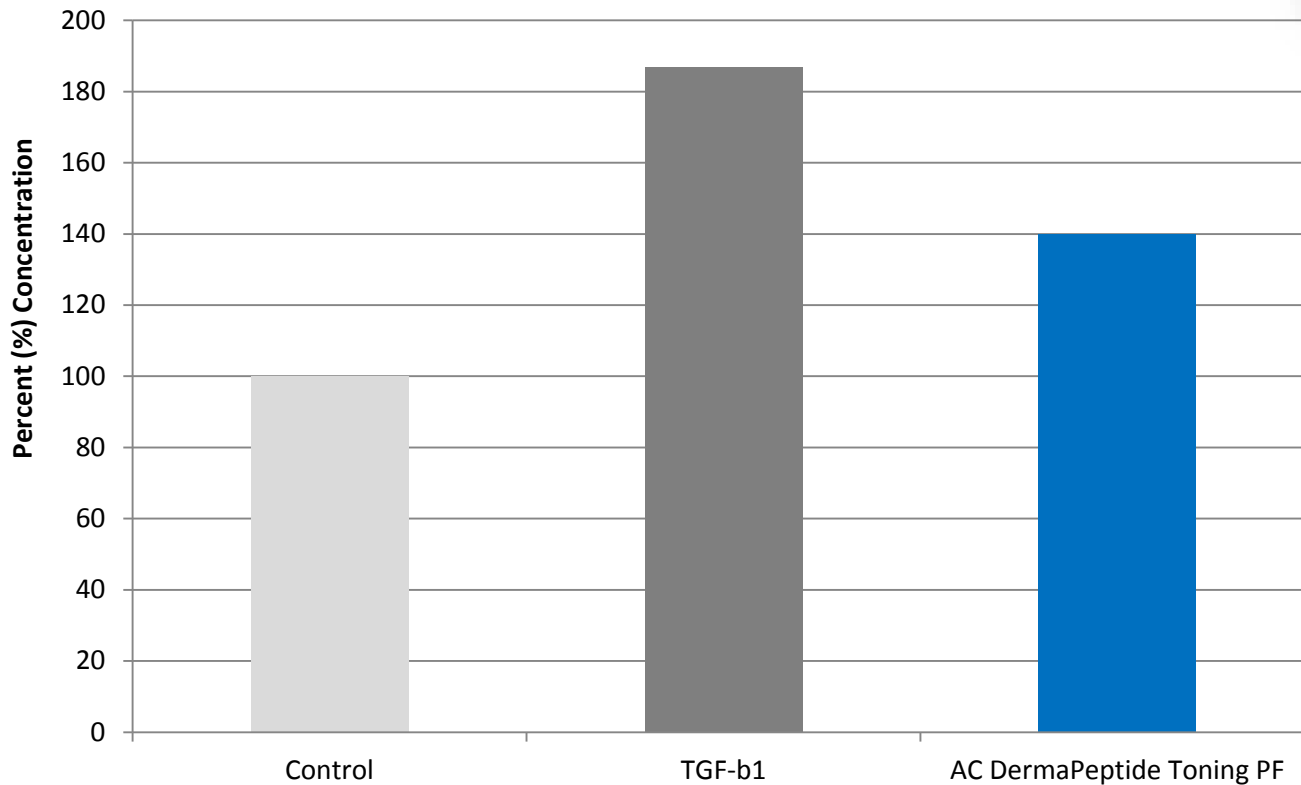
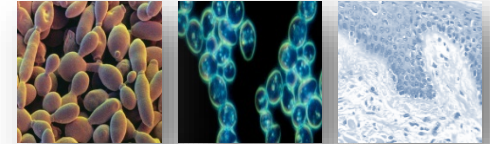


Figure 3. Increase in collagen IV Expression following application of test materials.

Efficacy Data

Collagen VII mRNA Expression

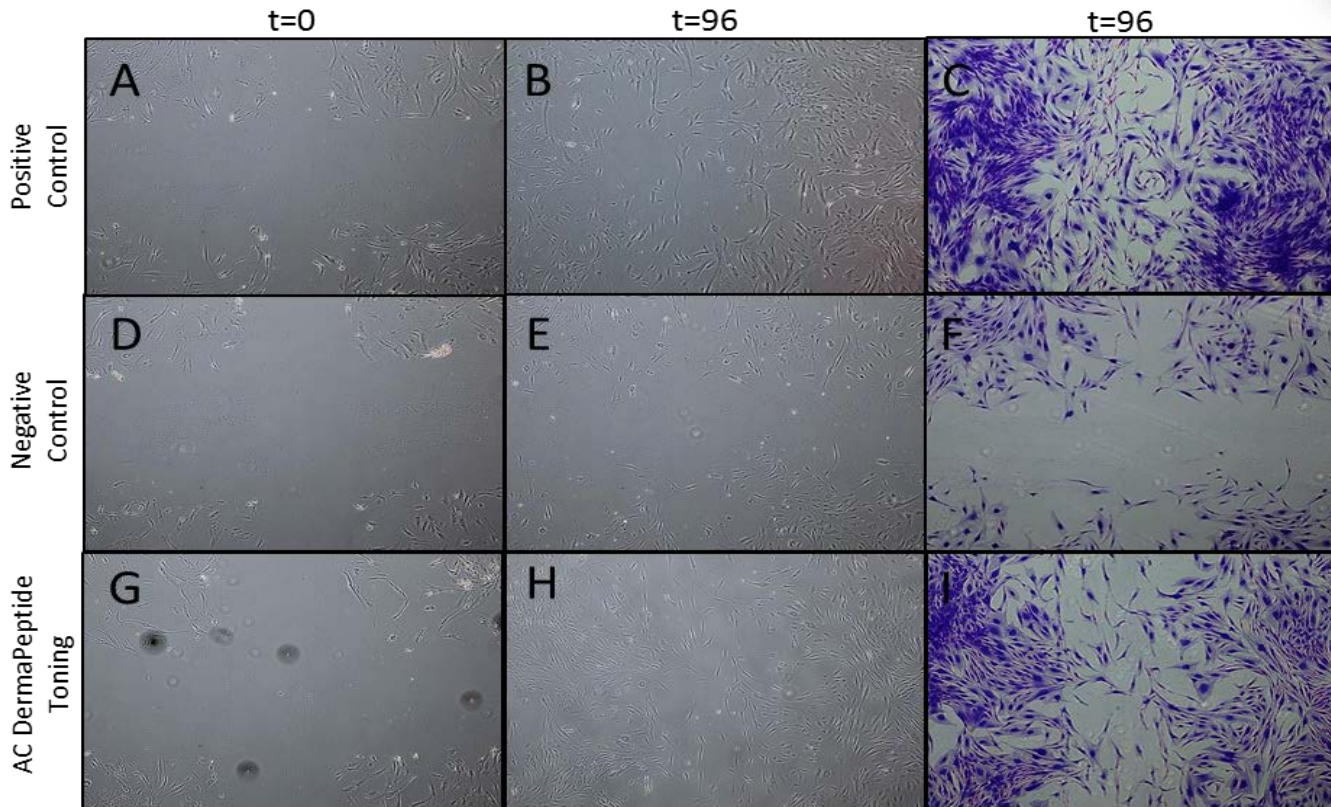
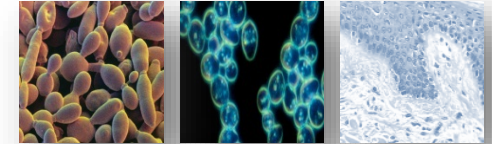


- **AC DermaPeptide Toning PF** effectively increased the synthesis of collagen VII
- **AC DermaPeptide Toning PF** increased fibroblast migration to wound sites after 24-48 hours

Figure 4. Increase in collagen VII Expression following application of test materials.

Efficacy Data

Scratch Assay

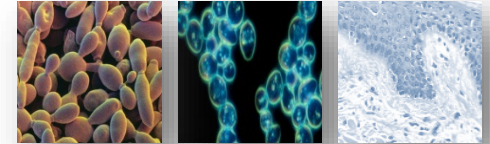


Protocol

- Human dermal fibroblasts were allowed to grow to confluency in complete DMEM
- 3% of **AC DermaPeptide Toning PF** was added to the serum free DMEM and incubated with fibroblasts
- The confluent cells were scratched
- Cells were stained for enhanced microscopy

Figure 5. Images right after scratch, after 5 days and after 5 days but stained for enhanced microscopy.

AC DermaPeptide Toning PF



Technical Information

Code: 20455PF

INCI Name: Water & Yeast Extract

Status: Conforms

Suggested Use Levels: 2.0 – 5.0%

Suggested Applications: Anti-wrinkle, Toning, Elasticity

ACTIVE CONCEPTS LLC



THANK YOU

For more information –Visit our website!
www.activeconceptsllc.com