

# AC DermaPeptide Revitalizing PF Efficacy Data

| Name of Study                     | Type of Study   | Results  |
|-----------------------------------|-----------------|--|
| <b>ATP Synthesis Assay</b>        | <i>In-vitro</i> | <b>AC DermaPeptide Revitalizing PF</b> showed a significant increase in ATP levels in comparison with a control. After 24 hours there was approximately a 42% increase in ATP levels from <b>AC DermaPeptide Revitalizing PF</b> . Therefore we can assume that <b>AC DermaPeptide Revitalizing PF</b> is able to increase ATP synthesis and the metabolic functions of the cells. |
| <b>Fibroblast Migration Assay</b> | <i>In-vitro</i> | According to the results, after 72 hours <b>AC DermaPeptide Revitalizing PF</b> showed a significant increase in cellular proliferation in comparison to the controls.   |

## AC DermaPeptide Revitalizing PF

Code: 20454PF

### Abstract

Our technical staff conducted a series of tests *in-vitro* to determine the increase of ATP synthesis, which indicates increased cellular metabolism, due to the application of **AC DermaPeptide Revitalizing PF**.

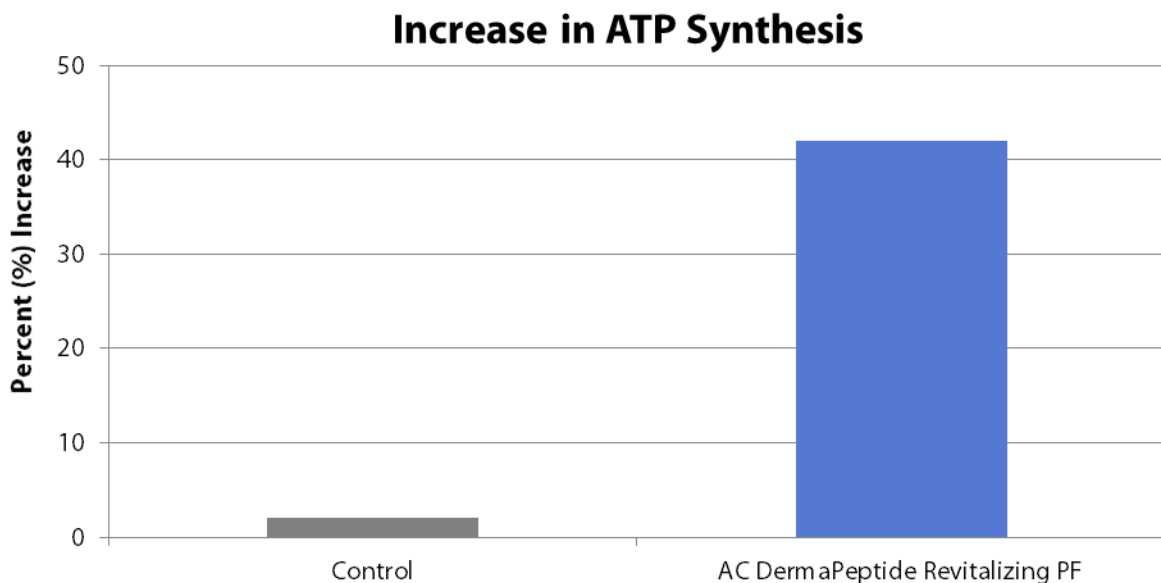
### Materials and Methods

Human fibroblast cells were grown in a control medium and a medium containing 2% **AC DermaPeptide Revitalizing PF** for 24 hours. These cells were then assayed with a luminescence kit to determine intracellular levels of ATP.

### Results

Intracellular levels of ATP are expressed by the following formula:

$$\frac{(\text{AC DermaPeptide Revitalizing PF} - \text{Control})}{\text{Control}} \times 100 = \% \text{ Increase in ATP}$$



**Figure 1.** Increased levels of ATP synthesis due to the application of **AC DermaPeptide Revitalizing PF**.



## ATP Synthesis Assay

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### Discussion

ATP, or adenosine triphosphate, is indicative of cellular metabolism, as it is the molecule from which cells derive energy. Thus if ATP levels increase, we can assume that cellular metabolism may increase as well. **AC DermaPeptide Revitalizing PF** showed a significant increase in ATP levels in comparison with a control. After 24 hours there was a 42% increase in ATP levels from **AC DermaPeptide Revitalizing PF**. Therefore we can assume that **AC DermaPeptide Revitalizing PF** is able to increase ATP synthesis and the metabolic functions of the cells.

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## AC DermaPeptide Revitalizing PF

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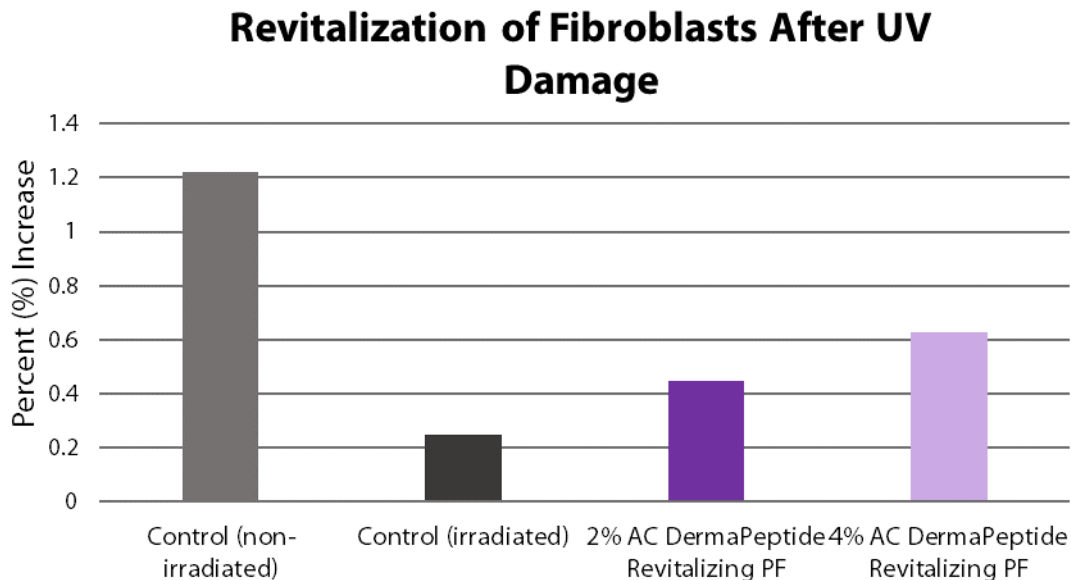
### Abstract

The purpose of this study was to determine the effects of **AC DermaPeptide Revitalizing PF** on fibroblast cellular proliferation. Fibroblasts are connective tissue cells that secrete collagen, glycoproteins, and other macromolecules and are ultimately important in the health and maintenance of the skin. Our technical staff conducted a series of tests *in-vitro* within an amino acid deficient medium to determine the supplemental effects on fibroblast growth, thus compensating for nutritional deficiencies and determining the nutritional advantages of **AC DermaPeptide Revitalizing PF**. This was compared to controls (non-irradiated & irradiated). The results showed that **AC DermaPeptide Revitalizing PF** may improve cellular migration and proliferation.

### Materials and Methods

Human fibroblasts were grown in a medium containing 10% fetal calf serum and inoculated at a concentration of approximately 6000 cells per dish. After 24 hours, these cells were removed and placed into an amino acid deficient medium and supplemented with either **AC DermaPeptide Revitalizing PF** at a dose level of 2% and 4%. A control was cultured one remained in a medium containing fetal calf serum. Growth levels were then checked after 72 hours. Cell growth was determined by staining the cells and measuring absorbance at 550nm.

### Results



**Figure 1.** Cellular revitalization after damage following application of **AC DermaPeptide Revitalizing PF**.



# Fibroblast Migration Assay

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## Discussion

A higher absorbance level represents more existing fibroblast cells and thus a higher amount of cellular migration and proliferation. According to the results, after 72 hours **AC DermaPeptide Revitalizing PF** showed a significant increase in cellular proliferation in comparison to the controls.

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