
Clinical study

IMEDEEN Time Perfection™

2008

Laboratory for skin substitutes, Lyon, France
Dr. Odile Damour

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The technique of growing a fully developed 3-D skin equivalent in a laboratory environment was perfected by renowned French scientist, Dr. Odile Damour and is widely used for testing the mode of action of various skincare ingredients and products.

In the study, IMEDEEN Time Perfection active ingredients were used in the same ratio as in the original tablet to feed the skin cells of the skin equivalent. The effects of the ingredients were measured and compared to the control cultures which had been developed in parallel without supplementation.

The results were impressive. Compared to the controls, the skin equivalent supplemented with IMEDEEN Time Perfection ingredients showed a substantial increase in the density of the dermis. Detailed investigation also showed an increased amount of protein fibres - the elements that give skin its strength and elasticity.

Documented results

Abstract and Poster presentation: Improvement of dermal extracellular matrix structure and composition after treatment with IMEDEEN Time Perfection in an in-vitro skin equivalent . Bouez C, Damour O, Vicanova J. 1st Joint Meeting of International Society for Bioengineering and the Skin & International Society for Skin Imaging. Hamburg, 21 - 24 May 2003.

CLINICAL TRIALS (In-vivo)

These are studies involving female volunteers where scientists and dermatologists observe and measure the effects of the product.

A 'controlled study' means that some participants receive the real product and others receive a placebo (without any active ingredients). A 'blind study' means only the investigating scientists know who is taking the real product. A 'doubleblind study' means neither the participants nor the investigators know who is taking the real product and who is taking the placebo.

SCIENTIFIC STUDIES (In-vitro)

These are experimental studies carried out by scientists in a laboratory. Skin cells and tissues can be isolated and cultured to see how they react to certain ingredients.