Evaluating the Capacity and Investigating the Mechanism of Collagen Oligopeptide on Holding Water and Resisting Wrinkle

Abstract

Objective: Verifying the function of collagen oligopeptide on holding water and resisting wrinkle in vivo and investigating its mechanism .

Methods: The random, double—blind and controlled method was used to evaluate the effects of the collagen oligopeptide on holding water and resisting wrinkle. The ability of the proliferation of the cultured cells was measured by WST—8.

Results: The effects of moisturizing and resisting wrinkle of collagen oligopeptide are significant compared with the baseline at the first, forth week. After treated by the collagen oligopeptide, the number of the cultured cell are more than the controlled group at 96, 120h significantly, especially in the group of 1.00 mg/ml.

Conclusion: The proliferation of the fibroblast can be boosted by the collagen oligopeptide, and the effect of moisturizing and resisting wrinkle of cosmetics can be improved by adding collagen oligopeptide, but the percutaneous absorption and the long term effect needed to be further verified.

Keywords: Collagen oligopeptide; Vivo test; Vitro test; Moisture; Resisting wrinkle; Cell proliferation

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