

〈原 著〉

大豆抽出液の肌荒れ改善作用

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Improvement of Skin Roughness by the Topical Application of Soybean Extract

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Abstract

We have evaluated the effectiveness of soybean extract (SE) on the treatment of scaly skin by the *in vivo* systems using mice and human. When SE was applied to hairless mice skin by the closed patch for 16 h, desquamation of the stratum corneum was accelerated. We tried to apply SE to the scaly portions of human elbow skin for 7 days. Scales decreased on the surface of skin treated with SE. On the results of these studies, we consider that SE is effective in improving scaly skin. SE did not contain four kinds of α -hydroxy acids, steroid sulfatase and protease activities that has been reported to be related with adhesion and desquamation of the stratum corneum. These analytical data suggest that the active compounds in SE may be not well-known materials.

Key words: scaly skin, soybean extract, steroid sulfatase, protease, α -hydroxy acids.