

〈原 著〉

水素添加大豆リン脂質を用いた油性ゲルの保湿作用*

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The Study of Moisturizing Effect of Oily Gel Formed by Hydrogenated Soybean Phospholipids

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Abstract

Moisturizing effect of oily gel formed by hydrogenated phospholipids (HSL) were examined by application to healthy female volunteers. Water concentration in stratum corneum was expressed as a conductance measured by high-frequency current. Oily gels were applied to left forearm. Application of oily gel of liquid paraffin (LP) with HSL 15% improved the water concentration in stratum corneum about 100 μ S over 2 h. In contrast, application of oily gel of octyl isononanoate (OIN) showed no change in water concentration in stratum corneum. The result was similar to that after application of LP or OIN, respectively. It indicated that not HSL but character of oil using in gel affected on water concentration in stratum corneum. The water-holding capacity, which was determined by water sorption-desorption test, was significantly increased after application of both LP and OIN gel. It suggested that HSL affected on the water-holding capacity.

Key words: moisturizing effect, phospholipid, liquid paraffin, octyl isononanoate, oily gel.