〈原　著〉

ヒト角層水分含有量に及ぼすラメラ構造脂質塗布の影響

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Moisturizing Effect of Lipids Forming Lamellar Structures

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Abstract

Sonication of the saturated monoglycerids (C8~C18) at 60°C in water gave the closed-lamellar structures which were similar to those of human intercellular stratum corneum lipids. By adding Ca^{2+} ion, the unilamellar vesicles transformed into multilamellar vesicles. Topical application of these lipids produced a significant increase in water contents of human stratum corneum and also exhibited in augmenting effects for other humectants.

Key words:

monoglycerids, lamellar structure, multilamellar vesicles, water content of stratum corneum