

<原著>

化粧品中の過酸化脂質量と紫外線照射化粧品の 皮膚刺激性について

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Lipoperoxides in Cosmetic Products and Skin Irritability of UV-Irradiated Cosmetics

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Abstract

The 25 cosmetic products on the market (8 lotions, 9 foundations and 8 creams) were left setting by the window, and the TBA (tiobarbituric acid) values of them were measured sometimes for a year. The TBA values of several creams and foundations were increased markedly and some cosmetic products changed the color and odious smelled with time.

A cream of the market and creams with 0.01, 0.1 and 1% dl- α -tocopherol each, were irradiated by ultraviolet rays and the TBA value of each cream was measured. The TBA values of the creams containing 0.1 and 1% dl- α -tocopherol did not increase.

Ultraviolet irradiated creams were everyday patch tested repeatedly on the back of guinea pigs for 8 days and on the 9th day histological examination was performed. Histological findings of patch tested area were as follows; hyperkeratosis, dyskeratosis, intraepidermal edema and vacuolation were shown in the epidermis, and in the dermis, small cell infiltration was observed.