

〈原 著〉

皮膚刺激指数からみた化粧品安全性の評価

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Safety Evaluations and Irritant Index of Cosmetics

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The following point was given to each grade of skin response in patch tests, respectively: 0 to -, 0.5 to ±, 1.0 to +, 2.0 to ++, 3.0 to +++ and 4.0 to ++++. The sum of total points in a cosmetic group or preparation was divided by the number of test subjects to be expressed in percent. This value is termed the "Skin Irritant Index" of the test material. Various commercial cosmetic preparations provided by 308 females with cosmetic dermatitis were patch-tested and photo-patch-tested from 1975 to 1976. The skin irritant index was calculated for each group of cosmetics. Such were considered to be average values of commercial preparations of cosmetics made in Japan, and to serve for the quality control of new cosmetics. The skin irritant index of new cosmetics submitted to patch-testing before being put on the market, was also shown in the following 4 groups: cleansing creams, skin tonics, emollient lotions and creams. It was found that the variance of cleansing creams and emollient lotions was significantly different from that of skin tonics and emollient creams ($\alpha=0.05$). In addition, the incidence of allergic and photo allergic reactions in patch tests showed that false negative responses are frequently present in cases of basic cosmetic preparations.