

シンポジウム I - 7

## 香粧品成分の純度と接触アレルギー

小塚 雄民\*

## The purity of cosmetic ingredients and contact sensitivity

Takehito KOZUKA\*

It was found that Sudan I is a potent elicitor and possibly a potent sensitizer.

Twelve human subjects known to be sensitized to Sudan I were patch-tested with Finn Chamber of Scanpor. While all subjects reacted to 0.1% concentration, two out of twelve continued to respond when tested with 0.0001%. This means that these two patients were reacted  $1 \times 10^{-6}$ grams of Sudan I a chamber.

A causative cosmetic contained  $5.6 \times 10^{-6}$  of Sudan I, however, it was not certain that this cosmetic sensitized the patients.

To allow for the theoretically greater variation in reactivity in larger populations, it is not possible to determine the minimum level required to elicit allergic reactions in previously sensitized subjects and the minimum level required to sensitize non-allergic subjects. The patients suffering from contact dermatitis caused by azo dyes will probably decrease, when the content of Sudan I in cosmetics is below the identification limit.