

〈原 著〉

画像解析による鱗屑の定量化

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Quantitative Evaluation of the Scaling Dry Skin with a Newly Devised Image Analyzing Computer System

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Abstract

An image analyzing computer system for quantitative evaluation of the scaling degree of dry skin was developed. The floating threshold method with the moving average was taken to process the irregularly lighted skin surface image. The scaling degree measured with this system was correlated to the result with naked eyes by planimeter. Then the degree of "skin roughness" induced by liquid dishwashing detergents and facial soaps on the market was investigated with this system.

Results were as follows:

1. The scaling degree of dry skin induced by liquid dishwashing detergents containing amine-oxide was significantly less than that of not containing amine-oxide.
2. The scaling degree of dry skin induced by facial soaps containing N-acyl glutamate (A.G.S.) was significantly less than that of containing monoalkyl phosphate (M.A.P.) which was the main surfactants and the toilet soaps.

Key words

1. scaling
2. skin roughness
3. image analyzing computer system
4. dishwashing detergent
5. facial soap