

〈原 著〉

酵素反応を利用した皮脂測定法の肌質評価法への応用

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An Enzymatic Assay of Skin Surface Lipids for Evaluation of Facial Skin Types

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Abstract

Recently, we developed a simple, rapid and accurate enzymatic assay for quantifying skin surface lipids. The purpose of this study was to apply it for evaluation of facial skin types. We examined the relationship between self assessed skin types and quantity of skin surface lipids measured with enzymatic assay.

The results showed:

- 1) Amounts of glycerol esters (GE), free fatty acids (FFA) and cholesterol (CHOL) quantified by enzymatic assay well corresponded to the skin types. These results correlated with those obtained by gas chromatography.
- 2) GE, FFA and CHOL quantified by enzymatic assay showed a good correlation with squalene quantified by gas chromatography.
- 3) We could measured about 50 subjects in 1 hour and could get all the results within the same day.

These results suggest that the enzymatic assay constitutes a suitable method for the measurement of skin surface lipids, which is simple, rapid, accurate and can be applied as a new evaluating technique for the facial skin types.

Key words: enzymatic assay, skin surface lipids, skin types.