

〈教育セミナー〉

化粧品・医薬部外品の安全性～よりよい製品の開発のために～

化粧品開発における皮膚移行・経皮吸収の重要性

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Importance of Skin Penetration and Permeation in Development of Cosmetics

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Abstract

The skin permeation can explain with Fick's diffusion model. Skin concentration depends on partition coefficient between skin and vehicle and concentration in vehicle. However it is changed with various factors, activity of ingredient in vehicle, effect of other ingredients on skin, the change of formulation after application and so on. Thus, if the same concentration of active ingredient is in the formulation, the skin concentration or skin absorption is not always the same. It is important to know the skin penetration and permeation of cosmetic ingredient for the assessment of not only toxicity but also efficacy.

Key words: skin concentration, safety test, formulation.