

〈シンポジウム：化粧品皮膚障害についての問題点〉

化粧品色素の問題点

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Mislabeled Commercial Dyes

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Many patients suffering from pigmented contact dermatitis caused by Brilliant Lake Red R were observed. The commercial sample of Brilliant Lake Red R proved to contain many contaminants. Some patients showed weaker patch test reactions to the purified sample compared to the commercial product. Sudan I was found to be a strong allergen in all cases.

To study the cross reaction, we purified the commercial samples of azo-dyes derived from 2-naphthol. Two incorrectly labeled commercial samples were found. A commercial dye labeled as Sudan II was identical with a purified sample of Sudan I in melting point, thin layer chromatography, infrared spectrum and nuclear magnetic resonance spectrum. A commercial dye labeled as Permaton Red was identical with a purified sample of Toluidine Red.

It is necessary to prepare the authentic cosmetic dyes and to provide the standard for commercial cosmetic dye.