

Journal

Journal of Home Economics of Japan, Vol.62 No.3 189~195 (2011)

Title

A Simplified Method of Dyeing with Natural Dyes and the Preparation of a Color Triangle Using this Method

Author

Mihoko DOUMYOU^{1*}, Kaoru ARUGA¹, Hayami YOKOYAMA², Yoshiaki SHIMIZU³,
Mitsuo KIMURA⁴

Affiliation

¹ School of Human Culture, University of Shiga Prefecture, Shiga, 522-8533

² Seibo Jogakuin Junior College, Kyoto, 612-0878

³ Formerly School of Engineering, University of Shiga Prefecture, Shiga, 522-8533

⁴ Formerly Kobe Women's University, Hyogo, 662-8505

Abstract

The Indian Madder tree and the Japanese Pagoda Tree were selected for use as a natural red dye and a natural yellow dye, respectively. A simplified method of dyeing with these dyes was tried in the following way: The material containing the coloring matter was ground into powder and extracted by water at 80°C. Silk fabric was then dyed with the residual material extract. In addition to these dyes, Gardenia Blue (GB) was used as a natural blue dye. The preparation of a color triangle was then attempted using these three dyes.

The extraction efficiency was remarkably promoted by breaking up the material containing successfully. Therefore, the dyeing of the pre-mordanted silk fabric and the cotton fabric treated with a cationic agent was possible to achieve in one step.

Key words

Natural dyes, simplified method of dyeing, color triangle