
報 文

幕末・明治時代の紫地古裂に用いられた天然染料 および初期合成染料の分析

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Identification of Natural and Early Synthetic Dyes Used in Violet Silk Fabrics Dated to the Late of Edo-Meiji Era

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Abstract

The objective of this study was to analyze the dyes used in violet silk kimono fabrics which could be dated as being from the end of Edo period to the Meiji Era. By using multiple, comparatively simple analytical methods (visual examination, spectroscopic analysis, extraction tests, etc), the identification of natural and synthetic dyes was carried out. First, mainly based on the results of extraction tests, 11 fabric samples were divided into two categories: eight with natural and three with synthetic dye. From the ultraviolet-visible absorption spectra of the extracts the eight natural-dyed samples were found to have been dyed with Gromwell root. In all three synthetic-dyed samples the dye class was found to be basic dye. Basic Violet 14 was detected in one of these samples using ultraviolet-visible absorption spectroscopy. Our proposed analytical procedure was proved to be useful in the identification of natural and synthetic violet dyes used in kimono fabrics as well as the red dyes on which we focused in the previous paper.

(Received July 9, 2013)

(Accepted for Publication October 28, 2013)

Keywords: natural dye 天然染料, early synthetic dye 初期合成染料, dye class 染料部属,
textile 染織品, conservation 保存