

〈一般論文〉

## カーボンブラック中のベンゾ(*a*)ピレンの測定法に関する研究

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### Studies for the Determination of Benzo(*a*)pyrene in Carbon Black

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#### Abstract

Carbon black is the carbon powder and Channel Black has been used on the cosmetic materials as hair dye and eye-liner in Japan since July 1977. In September 2004, American FDA admitted to use Furnace Black as a kind of dyes if the amount of benzo(*a*)pyrene in Furnace Black does not exceed 5 ppb. After operating the extracting procedures with toluene by the Soxhlet extraction system, we examined the analytical methods for both high-performance liquid chromatography and gas-chromatography/mass-spectrometry. We reported the analytical method of benzo(*a*)pyrene after extracting benzo(*a*)pyrene.

**Key words:** benzo(*a*)pyrene, carbon black, high-performance liquid chromatography, gas chromatography/mass-spectrometry.