

## Polycyclic aromatic hydrocarbons in fruit juices

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**Abstract** Polycyclic aromatic hydrocarbons (PAHs) are compounds widespread in the environment, many of them showing carcinogenic effects. These compounds can reach the food chain by different ways and, therefore, the analysis of PAHs in food is a matter of concern. The purpose of this paper is to determine the polycyclic aromatic hydrocarbons from fruit juices using high performance liquid chromatography (HPLC) coupled with fluorescence detection (FLD). The higher concentration value (2.92 $\mu$ g/L) was obtained for benzo[k]fluoranthene in grapefruit juice while in orange juice almost the all studied samples were under detection limit.

*Keywords:* polycyclic aromatic hydrocarbons, HPLC-FLD, fruit juices

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