

在线富集-HPLC法测定水溶液中多环芳烃

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**摘要** 用在线富集-HPLC法测定水溶液中多环芳烃. 先使样品中的组分浓缩一支短的富集柱上, 然后切换阀门, 将富集物洗脱到反相HPLC体系中分离. 并用紫外和荧光检定器对洗脱物进行检测. 为了提高灵敏度和选择性, 实验中采用了荧光波长程序技术. 考察了富集最佳条件, 比较了在线法和离线法的测定结果.

**关键词** [水溶液](#) [高速液体色谱](#) [水质分析](#) [蒽](#) [菲](#) [反相色谱](#) [在线富集](#) [多核芳香烃](#) [芘](#) [芘](#)

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## Determination of PAG in aqueous samples by on-line enrichment-HPLC

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**Abstract** Polycyclic aromatic hydrocarbons (PAH) in aqueous samples were collected in an online short enrichment column and separated by HPLC via a switching valve. The elutes were detected by UV and fluorescence in series. To obtain better selectivity and higher sensitivity, a manual fluorescence wavelength program was used for determining the trace PAH eluted. The optimum conditions for the enrichment of PAH were studied. The results of the determination of several PAH by online and off-line enrichment were also compared.

**Key words** [AQUEOUS SOLUTION](#) [HIGH SPEED LIQUID CHROMATOGRAPHY](#) [WATER QUALITY ANALYSIS](#) [ANTHRACENE](#) [PHENANTHRENE](#) [REVERSED PHASE CHROMATOGRAPHY](#) [ON-LINE CONCENTRATION](#) [POLYNUCLEAR AROMATIC HYDROCARBON](#) [CHRYSENE](#) [PYRENE](#) [FLUORENE](#)

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