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Title: Optimization and application of fabric phase sorptive extraction coupled to ultra-high performance liquid chromatography tandem mass spectrometry for the determination of cytostatic drug residues in environmental waters



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**OPTIMIZATION AND APPLICATION OF FABRIC PHASE SORPTIVE  
EXTRACTION COUPLED TO ULTRA-HIGH PERFORMANCE LIQUID  
CHROMATOGRAPHY TANDEM MASS SPECTROMETRY FOR THE  
DETERMINATION OF CYTOSTATIC DRUG RESIDUES IN ENVIRONMENTAL  
WATERS**

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#### HIGHLIGHTS

- A new microextraction procedure based on Fabric Phase Sorptive Extraction technique have been developed and applied for the first time for the extraction and preconcentration of cytostatic compounds.
- All variables that affect the extraction and determination processes have been optimized.
- The methodology is faster than the conventional ones, decreasing the number of necessary steps and the solvent expenditure.
- The successful application in real matrices show that the developed method is valid for the analysis of cytostatics in environmental samples.

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