

Accepted Manuscript

Title: A monolithic column based on covalent cross-linked polymer gels for online extraction and analysis of trace aflatoxins in food sample

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PII: S0021-9673(18)30294-2
DOI: <https://doi.org/10.1016/j.chroma.2018.03.015>
Reference: CHROMA 359254

To appear in: *Journal of Chromatography A*

Received date: 25-1-2018
Revised date: 5-3-2018
Accepted date: 12-3-2018

Please cite this article as: Tianfu Wei, Zhengyi Chen, Gongke Li, Zhuomin Zhang, A monolithic column based on covalent cross-linked polymer gels for online extraction and analysis of trace aflatoxins in food sample, *Journal of Chromatography A* <https://doi.org/10.1016/j.chroma.2018.03.015>

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A monolithic column based on covalent cross-linked polymer gels for online extraction and analysis of trace aflatoxins in food sample

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Research Highlights

- Preparation of covalent cross-linked polymer (CCLP) gels monolithic column
- The adsorption mechanism of the CCLP gels adsorbent was explored in detail
- A CCLP gels online extraction coupled with HPLC method for analysis of aflatoxins
- Practical application for online analysis of trace aflatoxins in food samples

ABSTRACT

Aflatoxins are highly toxic mycotoxin contamination, which pose serious food safety incidents. It is very important to precisely and rapidly determine trace aflatoxins in food. In this study, we designed porous monolithic column based on covalent cross-linked polymer gels for online extraction and analysis of trace aflatoxins in food samples with complicated matrices coupled with high-

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