

Accepted Manuscript

Title: Solid-Phase Extraction, Quantification, and Selective Determination of Microcystins in Water with a Gold-Polypyrrole Nanocomposite Sorbent Material

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PII: S0021-9673(18)30460-6
DOI: <https://doi.org/10.1016/j.chroma.2018.04.027>
Reference: CHROMA 359326

To appear in: *Journal of Chromatography A*

Received date: 19-1-2018
Revised date: 30-3-2018
Accepted date: 11-4-2018

Please cite this article as: Amila M. Devasurendra, Dilrukshika S.W. Palagama, Ahmad Rohanifar, Dragan Isailovic, Jon R. Kirchhoff, Jared L. Anderson, Solid-Phase Extraction, Quantification, and Selective Determination of Microcystins in Water with a Gold-Polypyrrole Nanocomposite Sorbent Material, *Journal of Chromatography A* <https://doi.org/10.1016/j.chroma.2018.04.027>

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Solid-Phase Extraction, Quantification, and Selective Determination of Microcystins in Water with a Gold-Polypyrrole Nanocomposite Sorbent Material

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HIGHLIGHTS

- Au-PPy nanocomposite-coated silica sorbent material used for solid-phase extraction
- Efficient extraction of microcystins achieved in lake and drinking water samples
- Low LODs and LOQs attained with excellent extraction efficiency
- Off-column selective separation of hydrophilic and hydrophobic microcystins
- Reusable sorbent for multiple microcystin extractions

ABSTRACT

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