

# Accepted Manuscript

Title: Solid phase extraction of organic compounds: a critical review. part ii

Author: Auréa Andrade-Eiroa, Moisés Canle, Valérie Leroy-Cancellieri, Víctor Cerdà

PII: S0165-9936(15)30044-3

DOI: <http://dx.doi.org/doi: 10.1016/j.trac.2015.08.014>

Reference: TRAC 14574

To appear in: *Trends in Analytical Chemistry*



Please cite this article as: Auréa Andrade-Eiroa, Moisés Canle, Valérie Leroy-Cancellieri, Víctor Cerdà, Solid phase extraction of organic compounds: a critical review. part ii, *Trends in Analytical Chemistry* (2015), <http://dx.doi.org/doi: 10.1016/j.trac.2015.08.014>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# SOLID PHASE EXTRACTION OF ORGANIC COMPOUNDS: A CRITICAL REVIEW. PART II

Auréa Andrade-Eiroa<sup>1\*</sup>, Moisés Canle<sup>2</sup>, Valérie Leroy-Cancellieri<sup>\*3</sup> and Víctor Cerdà<sup>4</sup>

1. ICARE, Institut de Combustion, Aérothermique, Réactivité et Environnement, CNRS, Orléans, France
2. Chemical Reactivity & Photoreactivity Group, Department of Physical Chemistry and Chemical Engineering, University of A Coruña, Spain.
3. SPE, Laboratoire des Sciences Pour l'Environnement, CNRS, Corte, France.
4. Department of Chemistry, Group of Automation, Analytical Chemistry and Environment, Balearic Islands University, Palma de Mallorca, Spain.

\*Corresponding author: [eiroa\\_2000@yahoo.es](mailto:eiroa_2000@yahoo.es), [aurea.andrade@cnrs-orleans.fr](mailto:aurea.andrade@cnrs-orleans.fr) Tel. (+33) 238 257376, Fax. (+33) 238 696004, [vcancellieri@univ-corse.fr](mailto:vcancellieri@univ-corse.fr)

Email addresses : Moisés Canle-López: [mcanle@udc.es](mailto:mcanle@udc.es); Valérie Leroy-Cancellieri: [vcancellieri@univ-corse.fr](mailto:vcancellieri@univ-corse.fr); Víctor Cerdà : [victor.cerda@uib.es](mailto:victor.cerda@uib.es)

**KEYWORDS** : Solid-Phase Extraction, environmental samples, extraction procedures in analytical chemistry, organic compounds.

## Highlights

- the advantages and disadvantages of SPE vs Liquid-Liquid Extraction (LLE),
- controversies and contradictions found in literature as regards:
  - selection of sorbents,
  - optimization of conditioning and elution protocols and recoveries by SPE.
- Moreover, it reveals the lack of selectivity of most of sorbents and SPE protocols
- And we came to the conclusion that a systematization of the SPE procedures is far off.

## ABSTRACT

Solid Phase Extraction (SPE) is the most widely used method for the extraction, changing of solvents, clean-up, concentration and fractioning of organic compounds from a lot of samples.

Download English Version:

<https://daneshyari.com/en/article/7689101>

Download Persian Version:

<https://daneshyari.com/article/7689101>

[Daneshyari.com](https://daneshyari.com)