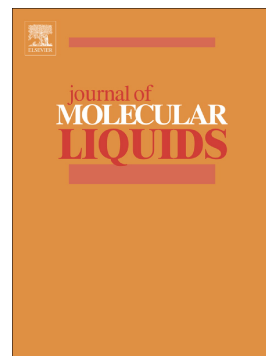


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**Ultrasonic assisted switchable solvent based on liquid phase microextraction combined with micro sample injection flame atomic absorption spectrometry for determination of some heavy metals in water, urine and tea infusion samples**

Ahmad Habibiyan<sup>1</sup>, MaryamEzoddin<sup>2</sup>, Navid Lamei<sup>3,4</sup>, Khosrou Abdi<sup>3,4\*</sup>, Mohsen. Amini<sup>3,4</sup>, Mahmoud Ghazi-khansari<sup>1\*</sup>

Running title: Ion pair-switchable-hydrophilicity solvent

<sup>1</sup>Department of Pharmacology, School of Medicine, Tehran University of Medical Sciences, Tehran, Iran

<sup>2</sup>Department of Chemistry, Payame Noor University, P.O. BOX 19395-3697, Tehran, Iran

<sup>3</sup>Drug Design and Development Research Center, Tehran University of Medical Sciences, Tehran, Iran<sup>4</sup>Department of Medicinal Chemistry and Radiopharmacy, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran

\*Corresponding author. Tel: +98 2164122111 Fax: +98 2166461178

Email: khmabdi@tums.ac.ir, ghazikha@tums.ac.ir

**Abstract**

A green switchable solvent based on liquid phase microextraction (SS-LPME), has proposed to extract some heavy metal ions (Cd, Ni, Pb and Co) from various samples by micro sampling flame atomic absorption spectrometry(FAAS). Triethylamine (TEA) and protonated triethylamine carbonate (P-TEA-C) asgreen switchable solvents were used in two forms in the

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