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A twin purification/enrichment procedure based on two versatile solid/liquid extracting agents for efficient uptake of ultra-trace levels of lorazepam and clonazepam from complex bio-matrices

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Highlights

- A highly effective twin clean-up/enrichment procedure pursued by HPLC-UV was introduced.
- This hyphenated procedure consisted of two consecutive dispersive solid/liquid phases microextractions.
- Clean-up step was based on versatile magnetic conductive polymer nanocomposite, synthesized via facile and cheap *in situ* sonochemical oxidative polymerization approach.
- The pre-concentration step was readily and swiftly feasible by effective and relatively safe deep eutectic based microextraction process.
- Accurate analyses at therapeutic/potentially toxic levels of benzodiazepines were successfully fulfilled in complex bio-fluids.

Abstract

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