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Title: Combination of dispersive solid phase extraction and deep eutectic solvent-based air-assisted liquid-liquid microextraction followed by gas chromatography-mass spectrometry as an efficient analytical method for the quantification of some tricyclic antidepressant drugs in biological fluids



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Combination of dispersive solid phase extraction and deep eutectic solvent–based air–assisted liquid–liquid microextraction followed by gas chromatography–mass spectrometry as an efficient analytical method for the quantification of some tricyclic antidepressant drugs in biological fluids

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Highlights

- A novel analytical method termed DSPE–DES–AALLME–GC–MS has been developed.
- The method was applied for the determination of TCA drugs in biological fluids.
- LODs and LOQs were achievable at ng L⁻¹.
- Use of green deep eutectic solvent made the method environmentally friendly.
- The proposed microextraction method is green, simple and cost-benefit.

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