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ACCEPTED MANUSCRIPT

Multi-residue analysis of sedative drugs in human plasma by ultra-high performance liquid chromatography tandem mass spectrometry

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Highlights

- Multi-group of tranquillizers in plasma were simultaneously detected by LC-MS/MS.
- The method was validated to be sensitive, precise and robust.
- It has been tested and validated for quick analysis of poisoning of tranquillizers.

Abstract`

Background: Sedative drugs are often used for the treatment of depression, anxiety and insomnia and they are involved in many forensic cases. This work established a method for the simultaneous determination of multi-groups of sedative drugs (benzodiazepines, barbitals, phenothiazines, tricyclic antidepressant and butyrophenone) in human plasma for forensic analysis. A large number of sedative drugs with forensic interest can be analyzed in a short time with lower limits of quantification by combination of SPE extraction and ultra performance liquid chromatography-tandem mass spectrometry. Download English Version:

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