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Title: Analysis of four sulfonylurea herbicides in cereals using modified Quick, Easy, Cheap, Effective, Rugged, and Safe sample preparation method coupled with liquid chromatography-tandem mass spectrometry

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Analysis of four sulfonylurea herbicides in cereals using modified Quick, Easy, Cheap, Effective, Rugged, and Safe sample preparation method coupled with liquid chromatography-tandem mass spectrometry

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Highlights

- Liquid chromatography tandem mass spectrometry with modified QuEChERS was developed to determine four herbicides in rice, wheat, soybean and maize.
- Acid environment in extraction and the amount of PSA were evaluated in the clean-up step in QuEChERS.
- Satisfactory recoveries of four herbicides were between 70.2% and 119.8%.
- Real samples showed residues of the tested analytes were below LOQs.

Abstract:

A modified Quick, Easy, Cheap, Effective, Rugged, and Safe (QuEChERS) sample preparation method, coupled with liquid chromatography-electrospray ionization

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