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Pressurized Liquid Extraction and Cleanup Procedure for the Determination of Pyrethroids in Soils Using Gas Chromatography/Tandem Mass Spectrometry

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An analytical method for the simultaneous determination of 12 pyrethroids in soil samples was developed using gas chromatography tandem quadrupole mass spectrometry. Pyrethroids were extracted by pressurized liquid extraction with optimized parameters such as solvent, temperature and extraction time. Then the graphitized carbon black cartridges were used for further purification. The method showed good linearity ($R_2 > 0.9931$) and good repeatability ($RSD \leq 12.6\%$) for all compounds, with the method detection limits ranging from 0.26 ng g^{-1} for transfluthrin to 0.87 ng g^{-1} for prallethrin. The recoveries of all compounds were 75 – 120%.

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