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Title: Simultaneous determination of 22 cephalosporins drug residues in pork muscle using liquid chromatography–tandem mass spectrometry

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Highlights

- A method based on liquid chromatographic–tandem mass spectrometric (LC–MS/MS) was firstly developed for 22 common cephalosporins measurement from the first generation to the fourth generation simultaneously.
- Extraction solvents, purification methods, stationary phases, MS/MS Conditions were optimized to baseline separate 22 cephalosporins.
- Method with a simple pre-treatment procedure without defat and deproteinization step was developed. Also, it is no need to concentrate and clean up the samples with SPE.
- Considering complete separation of all analytes and the retention time, stationary phases was selected according to the different characters of 22 cephalosporins.
- Simple, accurate, green, low cost, faster separations and better resolution.

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