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Application of spectroscopy analytical techniques in medicine and food dual purpose products



Bozhou XU Chinese Academy of Inspection and Quarantine, China Medicine and food dual purpose products are the important natural resource in China. There is an increasing need for new analytical methods that can be used for assuring safety and quality in medicine and food dual purpose products, including adulterants, pesticide residues and unknown functional components. In this work, recent applications of UPC² for the analysis of different compounds in food and biological samples were reviewed. A simple, highly sensitive and fast analytical method based on UPC² with photo-diode array detection (PDA) has been developed to quantify sulfonamides, monosaccharide and structural analogues of isoflavones isomer in medicine and food dual purpose products. The soft ionization fragmentation pathway based on mass spectrometry has been clarified for the determination of diosgenin in medicine and food dual purpose products. Furthermore, authentication technology based on fragment markers and high resolution mass spectrometry was developed for the quality assurance in medicine and food dual purpose products.

Biography

Bozhou XU has obtained her Master's degree from University of Birmingham, UK in 2014. She has worked in the Institute of Food Safety under Chinese Academy of Inspection and Quarantine for three years. She returned to China in 2015 and focused her attention on the application of Chromatography/ Mass Spectrometry in food safety and medicinal analysis. She published two research papers in the academic journals in Chinese and English.

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