Special Issue

Antibiotic Detection in Animal-Derived Agricultural Products

Message from the Guest Editors

Antibiotic residues in animal-derived agricultural products pose significant risks to food safety and public health by contributing to antibiotic resistance and potential allergic reactions, necessitating effective detection methods. Current approaches include highly sensitive instrumental techniques such as liquid chromatography–tandem mass spectrometry (LC-MS/MS), gas chromatography–mass spectrometry (GC-MS), and high-performance liquid chromatography (HPLC), typically combined with sample preparation methods like solid-phase extraction (SPE), QuEChERS, or accelerated solvent extraction (ASE). Emerging technologies like nanomaterials-based sensors and artificial intelligence-assisted analysis show promise for improving sensitivity and reducing detection time, highlighting the need for continuous innovation to ensure regulatory compliance and consumer safety. We also encourage the submission of review articles covering diverse detection technologies for antibiotic residues in animal-derived agricultural products.

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