

LC-MS/MS FOR THE ANALYSIS FOR NITROFURAN RESIDUES AT PPT LEVELS

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Nitrofurans are a group of carcinogenic chemicals which since 1991 have been banned in most countries in the world for use in food producing animals such as poultry and swine. Recent checks of fish and poultry products in the EU have found residues of nitrofuran metabolites in product imported from Thailand and Brazil. Sensitive methods for the analysis of these residues are therefore required and LC-MS/MS fits this application ideally.

Original methods for this analysis were based on LC-UV and LC- MS however in the complex matrices of the meat and fish extracts trace detection was difficult and false positives were possible due to interfering matrix components. LC-MS/MS improves detection limits and helps eliminate the possibility of erroneous results.

This poster describes the use of the Varian 1200L LC triple quad LC-MS/MS for the analysis of these compounds at low ppt levels.
