

## **CESI-MS/MS for the analysis of highly polar pesticides**

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### **Abstract**

Ann-Kathrin Wachtler is a state-certified food chemist and doctoral candidate at CVUA Stuttgart, where she works in the EURL-SRM focusing on pesticide analysis. She began studying food chemistry at the University of Stuttgart and the University of Hohenheim in 2011, then completed her final thesis on matrix effects in LC-MS/MS routine analysis of pesticides at CVUA Stuttgart in 2017. Since becoming a state-certified food chemist in 2018, she has been working on her doctoral thesis, researching the analysis of highly polar pesticides and the application of modern separation techniques for their determination.

Her talk will include an introduction to modern CE and the new CESI technique for the analysis of highly polar pesticides. She will provide insight into method development for the determination of anionic and cationic substances in food of plant and animal origin. Additionally, she will present the differences between LC-MS/MS and CESI-MS/MS as well as give an overview of matrix effects and the results of method validation.