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International Journal of Environmental Analytical Chemistry > Volume 91, 2011 - Issue 14

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Analytical study on ethephon residue determination in water by ion-pairing liquid chromatography/tandem mass spectrometry

Cristina Ripollés, José M. Marín, Juan V. Sancho, Francisco J. López & Félix Hernández Pages 1380-1391 | Received 25 May 2010, Accepted 27 Aug 2010, Published online: 21 Oct 2011

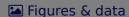
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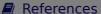
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evaluation of their relative intensity ratios allowed the reliable confirmation of the

analyte in samples. The optimised approach was tested in low-salinity water spiked at $0.1\,\mu g\,L^{-1}$ level with satisfactory recovery, and a limit of detection of $0.02\,\mu g\,L^{-1}$. To this purpose, the water sample was partially de-ionised in an initial stage, in order to remove major ions that would have interfered in analyses. The application of this methodology to more saline/complex water samples, as surface or wastewater, was problematic and a thorough optimisation of the de-ionisation conditions would be required.

Q Keywords: ethephon ion-pairing liquid chromatography tandem mass spectrometry tetrabuthylammonium, water analysis

Acknowledgements

This work has been developed under financial support of the Ministry of Education and Science, Spain (CTM2006-06417). The authors acknowledge the financial support of Generalitat Valenciana, as research group of excellence PROMETEO/2009/054. C. Ripollés is very grateful to the Ministry of Education and Science for her pre-doctoral grant.



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