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Agilent ZORBAX Rx-SIL

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Food testing and agriculture

[Multiresidue Analysis of Seven Anticoagulant Rodenticides by High-Performance Liquid Chromatography/Electrospray/Mass Spectrometry](#)

Journal of Agricultural and Food Chemistry, **55**,
571-576 (2007)
LeEtta J. Marek, William C. Koskinen

Tags

Bond Elut Alumina, ZORBAX Rx-C8, food testing
and agriculture, pesticides

Abstract

Mice and rat populations are commonly controlled by two classes of rodenticide anticoagulants, coumarins and indandiones. However, poisoning of nontarget animals also often occurs. For cases such as these, a rapid, multiresidue method, which provides positive confirmation for both classes of anticoagulant rodenticides, is needed by diagnostic laboratories. A method was developed for the determination of seven anticoagulant rodenticides, coumafuryl, pindone, warfarin, diphacinone, chlorophacinone, bromadiolone, and brodifacoum, in diverse matrices, animal feed, cooked beef, and fruit-flavored beverages using high-performance liquid chromatography/electrospray/mass spectrometry. Detection was by MS/MS with electrospray ionization in negative mode. Confirmation was by retention time, m/z of molecular ion, and two parent–daughter transitions. Recoveries from selected the matrices ranged from 61 to 117%. Limits of quantitation were as low as 1.5–4.5 ng g⁻¹. The developed method was rapid and provided the simultaneous confirmation and quantification of the seven anticoagulant rodenticides. Reprinted with permission from the *Journal of Agricultural and Food Chemistry*. ©2007 American Chemical Society.

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