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Determination of coumaphos residues in honey from some apiaries in Tehran province

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ABSTRACT

In this survey, three apiaries with the history of annual treatment with coumaphos in Karaj, Taleghan and Damavand were selected. Sampling was carried out in autumn and spring and the samples were analyzed by reverse phase HPLC. All samples contained coumaphos residues in measurable quantities. The results obtained from residues analysis indicated that the means of coumaphos residues for Karaj, Taleghan and Damavand were 13.69, 19.45 and 8.85 μg/kg in autumn, respectively. There was a significant difference between the mean residue values of Taleghan and Damavand. In spring samples, the residue concentrations were 15.03, 11.95 and 8.80 μg/kg for Karaj, Taleghan and Damavand, respectively. The mean of residues in Karaj apiaries was more than those of Taleghan and Damavand.

Kewords: Honey, Coumaphos, Varroa, Pesticide Residue

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