

عنوان مقاله:

Investigation of Pesticide Persistence on *Berberis vulgaris* L. in Iran

محل انتشار:

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ABSTRACT Pesticide residues and their derivatives in agricultural products are a serious threat to consumer's health. Due to the use of barberry in the raw state, determination of the residual common pesticide residue is essential, which has not been done so far. This study aimed to evaluate the pesticide residues in the *Berberis vulgaris* by QuEChERS (quick, easy, cheap, effective, rugged and safe) extraction, and Gas chromatographic-mass spectrometry (GCMS) in Iran. In general, barberry fruit samples from *Berberis vulgaris* gardens from 6 different regions have been studied, in which Diazinon, Phosalone and Oxydemeton-methyl pesticides have been used, the durability of the effects of Diazinon, Oxydemeton-methyl and Phosalone pesticides on barberry extract was investigated within 15 days daily with three replicates. In this study, Diazinon has the least duration, until the 12th day. Oxydemeton-methyl has a weak downtrend in Barberry, and the Phosalone pesticide has more stability in this product during this investigation.
Keywords: pesticide persistence, *Berberis vulgaris*, QuEChERS, extraction

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