Evaluation of pesticide residues in fruits and vegetables from Algeria Part B Surveillance

Auteurs:

Samira Mebdoua, Mohamed Lazali, Sidi Mohamed Ounane, Sihem Tellah, Fahima Nabi, Ghania Ounane

Date de publication:2017

Description:

A total of 160 samples of 13 types of fresh fruits and vegetables from domestic production and import were analysed to detect the presence of pesticide residues. Analysis was performed by multi-residual extraction followed by gas chromatography–mass spectrometry. In 42.5% of the tested samples, no residues were found and 12.5% of samples contained pesticide residues above maximum residue limits. Risk assessment for long-term exposure was done for all pesticides detected in this study. Except chlorpyrifos and lambda-cyhalothrin, exposure to pesticides from vegetables and fruits was below 1% of the acceptable daily intake. Short-term exposure assessment revealed that in seven pesticide/commodity combinations, including three pesticides (chlorpyrifos, deltamethrin and lambda-cyhalothrin), the acute reference dose had been exceeded.

Articles Google Scholar:

Evaluation of pesticide residues in fruits and vegetables from Algeria Part B Surveillance
S Mebdoua, M Lazali, SM Ounane, S Tellah, F Nabi… - 2017