

عنوان مقاله:

Rapid detection Methods of Pesticides Residues in Vegetable Foods

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خلاصه مقاله:

In recent years, environmental concerns and food safety in developing countries are the most important issues. Pesticides are vastly utilized in farming to improve crop production and quality and to reduce energy costs. These pesticides are biodegradable chemical compounds that are generally applied in farming to control pests and promote agricultural production. However, their excessive use, even in low concentrations, may cause serious health problems and environmental pollution. Therefore, a great deal of the research has focused on methods used for determining the presence of pesticides in various food matrices, according to this proposing sensitive diagnostic methods is essential for reliable quantification of pesticides availability. Meanwhile, rapid detection technologies which are among the most important tools in the analysis of food products are required to be assessed for analysis of residual persistence of pesticides in food and agricultural products to effectively control their quality and safety. In this article, it is attempted to provide a complete review of some detection methods including HPLC, HPTLC, GC/ MS/ MS, CE-DAD, LPME, SPME, LLE, DLLME, AChE, SERS, LC/ Tandem/ MS/ MS, MSPD, luminescence chemistry, safety assessment, and .Meisel chromatography electrosynthesis used to identify pesticide residues in different food samples

کلمات کلیدی:

HPTLC, AChE, DLLME, SERS, LPME, GC-MS

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