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Survey on Organochlorine Pesticide Residues in Raw Materials of Traditional Chinese Medicines (VII)

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ABSTRACT

The evaluation of pesticide residues in raw materials of traditional Chinese medicines (TCM) is essential for the quality control of TCM. In this study, the contents of pesticides in 12 raw materials of TCM, including as Dioscoreae Rhizoma, Chuanxiong Rhizoma, Glycyrrhizae Radix, Paeoniae Alba Radix, Rehmanniae Radix, Cassiae Semen, Jujubae Fructus, Armeniacae Amarum Semen, Poria, Citri Reticulatae Pericarpium, Astragali Radix and Angelicae Sinensis Radix, were investigated. Twenty samples per raw material of TCM, totally 240 samples, were tested. The residues of 215 pesticides were analyzed by GC/ECD, GC/PFPD, GC/MS and LC/MS/MS. The result showed that the organochlorine pesticide residues in all 240 samples complied with the limit. However, 14 samples of Citri Reticulatae Pericarpium, 8 samples of Chuanxiong Rhizoma, 7 samples of Jujubae Fructus contained pesticide residues. The results could be provided as the reference for the regulatory authority.

Key words: traditional Chinese medicines, pesticide residue