

センナ中に残留する有機塩素系農薬の実態調査

—1991~2005年における経年変化について—

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Organochlorine Pesticide Residues in Senna Leaf

—Annual Changes in the Contamination Levels from 1991 to 2005—

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Summary

Annual changes in organochlorine pesticide residue levels in Senna Leaf commercially manufactured in Japan were evaluated from 1991 to 2005. Pesticides were extracted with *n*-hexane-acetone-water and cleaned up using Florisil cartridges and sulfuric acid treatment. The analysis was performed by gas chromatography with MS (EI mode) and ECD detection.

Until the early 2000s, many samples were contaminated with organochlorine pesticide residues. However, recently, the contamination levels have been decreasing.

Among the organochlorine pesticides (α , β , γ , δ -BHC, *p*, *p'*-DDT, *o*, *p'*-DDT, *p*, *p'*-DDE and *p*, *p'*-DDD) examined in Senna Leaf, α -BHC and γ -BHC were detected in higher frequency than other organochlorine pesticides. The level of DDT contaminant in Senna leaf was lower than that of BHC contaminant.

Key words

Senna Leaf, Organochlorine pesticide residue, BHC, DDT, Annual Change