

## Abstract

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### **Chemical polymorphism of essential oils of *Hyptis suaveolens* from El Salvador.**

Wild growing, flowering *Hyptis suaveolens* (L.) Poit. (Lamiaceae) from 15 populations from El Salvador was collected and hydrodistilled. The resulting essential oils were analyzed by GC-MS. Principal component analysis of concentration data from 32 compounds showed differences of the chemical composition according to the geographic origin. In the southern area a fenchone-fenchol-chemotype was predominant, whereas in the northern regions the plants mostly accumulated 1,8-cineole. The essential oils of two collection sites from the southeast revealed high yields of  $\alpha$ -terpinolene and sabinene. Some populations, however, showed unsteady compositions, indicating that intrapopulation chemical polymorphism occurs in *Hyptis suaveolens*.