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Determination of Iridoid Glycosides from Four Turkish Lamium Species by HPLC-ESI/MS

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

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Abstract: An HPLC-ESI/MS method that enables fast detection and identification of iridoid glycosides is described. Eleven iridoid glycosides known to occur in the genus *Lamium*-lamalbid, sesamoside, 6- β -OH ipolamiide, shanzhiside methyl ester, dehydropenstemoside, barlerin (= 8-O-acetylshanzhiside methyl ester), 6-O-syringyl-8-O-acetylshanzhiside methyl ester, lamerioside, lamiide, eriobioside, and ipolamiide, were identified by means of their retention time and ESI/MS data. This method was successfully applied to the identification of the iridoid composition of the n-butanol extracts of *Lamium eriocephalum* Benth subsp. *eriocephalum*, *L. garganicum* L. subsp. *pulchrum* R. Mill, *L. garganicum* L. subsp. *laevigatum* Arcangeli, and *L. purpureum* L. var. *purpureum* from the Turkish flora.

Key Words: *Lamium*, Lamiaceae, iridoid glycosides, HPLC, ESI/MS

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