Turkish Journal of Botany

The Phenolic Chemistry of Lappula squarrosa(Retz.) Dumort., L. barbata (Bieb.) Gurke and L.

Turkish Journal

of

microcarpa(Ledeb.) Gurke Species

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Keywords Authors Abstract: The aim of this research was to study the phenolic chemistry of Lappula squarrosa (Retz.) Dumort., L. barbata (Bieb.) Gurke and L. microcarpa (Ledeb.) Gurke. The specimens were sorted into three groups according to their general morphological features. Nine morphological characters were determined in each group and measured. According to FisherÕs test, four of these characters which belong to fruit morphology had a difference of 95 %. Each group was diagnosed and were found to belong to L. squarrosa, L. barbata and L. microcarpa. The specimens were hydrolyzed in hydrochloric acid and were extracted with isoamyl alcohol, ethanol and ethylacetate. The extracts were analyzed by paper chromatography. It was found that phenolics from fruits can be important characters in the distinction of these species and good evidence was obtained to determine the relationships between these species.



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<u>Key Words:</u> Lappula, Chemotaxonomy, Phenolic substances, Boraginaceae, Turkey.

Turk. J. Bot., 24, (2000), 169-176.

Full text: pdf

Other articles published in the same issue: Turk. J. Bot., vol. 24, iss. 3.