

Comparative Study of *Tanacetum* Species Growing in Bulgaria

Milka N. Todorova^{a,*} and Ljuba N. Evstatieva^b

^a Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria. E-mail: todorova@orgchm.bas.bg

^b Institute of Botany, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria

* Author for correspondence and reprint requests

Z. Naturforsch. **56c**, 506–512 (2001); received January 25/March 19, 2001

Tanacetum species, Asteraceae, Sesquiterpene lactones

Chemical investigation of the Bulgarian species *Tanacetum parthenium*, *T. millefolium*, *T. achilleifolium*, *T. corymbosum* and *T. macrophyllum* afforded in addition to 24 known sesquiterpene lactones a new 12, 8-eudesmanolide **22**. Besides, four known highly oxygenated terpenoids and a new keto-diol **30** of the rare iphionane skeleton were also isolated. The structures were elucidated on the basis of their spectral properties. The accumulation of the different sesquiterpene lactones in the studied species and their classification is discussed.