

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

 [Keywords](#)
[Authors](#)



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Nepetalactones and Other Constituents of *Nepeta nuda* ssp. *Albiflora*

Gamze KÖKDİL

Department of Pharmacognosy, Faculty of Pharmacy,
University of 06100 Tandogan, Ankara-TURKEY

Sabiha M. YALÇIN

Yıldız Technical University, Arts and Science Faculty,
Department of Chemistry, 80270 Şişli, İstanbul-TURKEY

Gülaçtı TOPÇU

TUBITAK, Marmara Research Center, Department of Chemistry,
P.O.Box 21, 41470, Gebze, Kocaeli-TURKEY

Abstract: The hexane extract of *Nepeta nuda* ssp. *albiflora* led to the isolation of six known monoterpene nepetalactones, $4\alpha,7\alpha,7a\alpha$ -nepetalactone (1), $4\alpha,7\alpha,7a\beta$ -nepetalactone (2), $4\alpha\beta,7\alpha,7a\beta$ -nepetalactone (3), $4\alpha\beta,7\alpha,7a\alpha$ -nepetalactone (4), $4\alpha,7\beta,7a\beta$ -nepetalactone (5), 3α -hydroxy- $4\alpha,7\alpha,7a\alpha$ -dihydro-nepetalactone (=nepetalic acid) (6) and a dimeric 5,9-dehydronepetalactone (7) along with two known steroids β -sitosterol and sitosterol 3-one and a triterpene betulinic acid. The acetone extract of the same plant afforded compound 7 in a higher yield in addition to compounds 2 and 6, and sesquiterpene caryophyllene oxide, the iridoid glucoside 1,5,9-epideoxyloganic acid, the triterpenoids oleanolic, ursolic and betulinic acids, and sitosterol 3β -glucoside.

Key Words: *Nepeta nuda* ssp. *albiflora*; Lamiaceae; nepetalactones; dimeric 5,9-dehydronepetalactone ; sesquiterpene; triterpenoids; steroids.

Turk. J. Chem., **23**, (1999), 99-104.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem.,vol.23,iss.1.](#)