Dammarane and Ceanothane Triterpenes from *Zizyphus glabrata*

Seru Ganapaty[a], Pannakal S. Thomas[a], Kancharalapalli V. Ramana[a], Gloria Karagianis[b], and Peter G. Waterman[b]

[a] Pharmacognosy and Phytochemistry Division, Department of Pharmaceutical Sciences, Andhra University, Visakhapatnam-530 003, Andhra Pradesh, India
[b] Centre for Phytochemistry, Southern Cross University, Lismore, PO Box. 157, NSW 2480, Australia

Reprint requests to Prof. Seru Ganapaty. Fax: 00-91+0891-2755547.
E-mail: ganapatyseru@yahoo.co.in

Z. Naturforsch. **61b,** 87 – 92 (2006); received July 9, 2005

From the leaves of *Zizyphus glabrata*, a new dammarane-type triterpene, pseudojujubogenin -3-O-β-D-glucopyranoside, along with the known ceanothane triterpenes, granulosic acid, ceanothic acid and daucosterol were isolated. The structures of the compounds were fully characterized by detailed NMR investigations including ^{1}H and ^{13}C NMR, HSQC, COSY, HMBC and NOESY experiments. In addition, the dammarane glycoside was tested for its potential to inhibit various bacteria and was found to possess significant bactericidal activity. The ^{1}H, ^{13}C and full 2D-NMR data on granulosic acid has also been presented. This is the first report on the chemical constituents of the leaves of *Z. glabrata*.

Key words: Zizyphus glabrata Heyne (syn: *Z. trinervia* Roxb), Rhamnaceae, Dammarane, Ceanothane Triterpenes, Antimicrobial Activity