

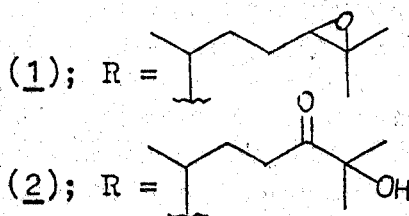
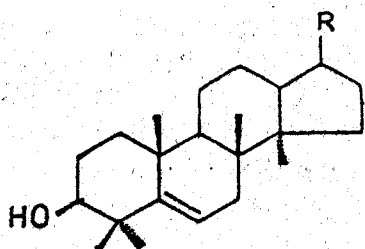
A RARE D:B-FRIEDO-OLEANANE AND TWO NEW DAMMARANE TRITERPENOIDS FROM REISSANTIA INDICA (CELASTRACEAE)

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Reissantia indica (syn. Pristimeria indica, Hippocratea indica) is a robust climber growing wild in Sri Lanka and South India. Previous chemical investigations of R. indica have revealed the presence of pristimerin and dulcitol¹.

Chromatographic separation of the hexane extract of the root bark of R. indica yielded 09 crystalline compounds. Four of these were identified as sitosterol, canophyllol, pristimerin and tingenone by direct comparison with authentic samples. Extensive spectroscopic analysis of the fifth compound revealed it to be D:B-friedo-olean-5-ene-3 β , 29-diol which has been encountered only once before in nature². Spectroscopic [400 MHz ¹H-NMR, ¹³C NMR, IR and high resolution MS] data of the remaining four compounds indicated them to be new dammarane triterpenoids. Based on spectroscopic analysis two of these were identified as (1) and (2). This constitutes the first report of the occurrence of dammarane type triterpenoids in a plant of the family Celastraceae.



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References

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2. Weeratunga, G. and Kumar, V (1985) Phytochemistry 24(10) 2369