

TWO NEW TIRUCALLANES FROM PARAMIGNYA
MONOPHYLLA (RUTACEAE) FRUITS

Vijaya Kumar, N.M. Niyaz,
H.N.K. Bulumulle and D.B. Mahinda Wickramaratne
Dept. of Chemistry, University of Peradeniya

The light petroleum extract of *Paramignya monophylla* fruits contained the tetracyclic triterpene, flindessone, previously isolated from *Flindersi* species (Birch et al., 1963) and two new triterpenes.

The special data of the less polar triterpene (1) suggested it to be an unsaturated Keto-alcohol. Lithium-ethylenediamine reduction of its acetate gave 3α and 3β -hydroxytirucalla-7, 24-diene suggesting that (1) had a 3-oxotirucalla-7,24-diene structure with an additional OH group. Oxidation of the triterpene gave an α, β -unsaturated ketone (2) whose UV, 1-H NMR and MS suggested it to be 3,23-dioxotirucalla-7,24-diene. The triterpene (1) was therefore 3-oxotirucalla-7,24-dien-23-ol. The spectral data of the more polar triterpene (3) showed that it did not possess a carbonyl group and that it was related to triterpene (1). A tirucalla-7, 24-diene - 3β , 23-diol structure was proposed and this was confirmed by PCC oxidation of (2) to a mixture of (1) and (3).

References:

Birch, A.J., Collins, D.J., Mohammed, S. and Turnbull, J.P.
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Acknowledgements: We thank Ciba-Geigy Ltd., Basel, Switzerland and the International Foundation of Science, Stockholm for financial support.