

(80–20). α -Euphorbol. $C_{30}H_{50}O^3$ m.p. 126–127° (Found, C, 84.52, H, 11.42. Reqd. C, 84.44, H, 11.81%. IR 3400 cm^{-1} , NMR, m.m.p., TLC. Acetate and benzoate, m.p. m.m.p., IR 1740 cm^{-1} and NMR) was in the $CHCl_3$ – C_6H_6 (15–85) fractions and crystallized from MeOH.

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TARAXASTEROL FROM *STEVIA BERLANDIERI* AND *CIRSIIUM TEXANUM*

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Key Word Index—*Stevia berlandieri*; *Cirsium texanum*; Compositae; triacontane, taraxasteryl acetate, taraxasterol, sitosterol, 5,6-dihydroxy-7,8,4'-trimethoxyflavone, pentacosanone-12, mannitol.

Plant. *Stevia berlandieri* A. Gray. *Source.* Galeana, Coah. August 1973 (Voucher specimen No. 7298). *Previous work.* On sister species.¹

Present work. The dried whole plant was extracted successively with petrol. and EtOH. Each extract was chromatographed over silica-gel. The compounds were identified by IR, NMR, UV, $[\alpha]$, MS, m.m.p. and coTLC. The petrol. extract afforded, triacontane, taraxasterol and sitosterol. From the EtOH extract 5,6-dihydroxy-7,8,4'-trimethoxyflavone was isolated.

Comments. Tests² and IR examination for sesquiterpene lactones and alkaloids were negative.

Plant. *Cirsium texanum*, Buckl. *Source.* Monterrey, N.L. July 1973 (Voucher specimen No. 72). *Previous work.* On sister species.³

Present work. The dried roots and aerial part was extracted successively with petrol. and EtOH. Chromatography on silica gel of the petrol. extract gave pentacosanone-12, m.p. 65°, IR, NMR, MS; pseudo-taraxasteryl acetate, m.p., $[\alpha]$, IR, NMR, UV, MS and coTLC; pseudo-taraxasterol, m.p. m.m.p. $[\alpha]$, IR, NMR, MS and coTLC. From the EtOH extract D-mannitol was obtained. It was identified on its m.p. $[\alpha]$, IR, NMR, m.m.p. and the same properties of its hexacetate and hexabenzoate.

Comments. Tests and IR examination for sesquiterpene lactones and alkaloids were negative.

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