

SHORT COMMUNICATION

AN EXAMINATION OF THE EUPHORBIACEAE OF
HONG KONG—III*.

THE OCCURRENCE OF TRITERPENOID AND STEROIDS IN
BRIDELIA MONOICA

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Plant. *Bridelia monoica* (Lour.) Merr. (Euphorbiaceae).

Uses. Not known.

Previous work. On sister species.^{1,2}

Leaves. (Extracted light petroleum, chromatographed-alumina):

Friedelin C₃₀H₅₀O (m.p., mxd. m.p., [α]_D, i.r.): from light petroleum:benzene (7:3) fractions.

Friedelan-3β-ol C₃₀H₅₂O (m.p., mxd. m.p., [α]_D, and i.r. of alcohol and acetate): from light petroleum:benzene (1:4) fractions.

Glutin-5-en-3β-ol (D,B-friedo-olean-5-ene-3β-ol) C₃₀H₅₀O (m.p., mxd. m.p., [α]_D, and i.r. of alcohol and acetate): from benzene:chloroform (3:2) fractions.

Sterol mixture from benzene:chloroform (2:3) fractions, separated into *Stigmasterol* C₂₉H₄₈O (m.p., mxd. m.p. of acetate tetrabromide; m.p., mxd. m.p., [α]_D, i.r. of acetate and alcohol) and *β-sitosterol* C₂₉H₅₀O (m.p., mxd. m.p., [α]_D, i.r. of acetate).

Stems. (Extracted light petroleum, chromatographed-alumina):

Friedelan-3β-ol C₃₀H₅₀O (m.p., mxd. m.p., [α]_D, and i.r. of alcohol and acetate): from light petroleum:benzene (3:2) fractions.

Stigmasterol C₂₉H₄₈O (m.p., mxd. m.p., [α]_D, i.r. of alcohol and acetate): from light petroleum:benzene (2:3) fractions.

A compound C₂₀H₃₈O₂, m.p. 101–102°, [α]_D + 12.8°, (Found: C, 77.14; H, 12.25. Required: C, 77.36; H, 12.34%) containing a long aliphatic chain [ν_{max} 718, 728 (doublet) and 1180–1320 cm⁻¹ (several equal-spaced bands)], an OH (ν_{max} 3270 cm⁻¹) and a C=O (ν_{max} 1698 cm⁻¹) function, from light petroleum:benzene (1:4) fractions. Acetate, m.p. 75–76°, [α]_D + 41.2° (ν_{max} 1230, 1740 cm⁻¹).

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