

SHORT COMMUNICATION

THE ALKALOIDS OF *ARCANGELISIA LOUREIRII* AND *COSCINIUM WALLICHIANUM*

L. M. GARCIA,* K. JEWERS, A. H. MANCHANDA, P. MARTINOD,†
J. NABNEY and F. V. ROBINSON

Tropical Products Institute, 56/62 Gray's Inn Road, London, W.C.1

(Received 10 September 1969)

Plant. *Arcangelisia loureirii* Diels—Menispermaceae.

Uses. Not known.

Previous work. On sister species.¹

Stems. (Extracted MeOH.) Quaternary alkaloids, isolated² as iodides, then converted to chlorides (Amberlite IRA 401), were chromatographed on acid-washed alumina. *Palmitine* chloride, C₂₁H₂₂O₄NCl (0.1% of stems; m.p., mixed m.p., i.r., NMR, u.v., TLC,³ reduction⁴ to tetrahydropalmitine: m.p., i.r., u.v.) eluted by CHCl₃, *Berberine* chloride, C₂₀H₁₈O₄NCl (0.2%; m.p., mixed m.p., i.r., NMR, u.v., TLC, reduction⁴ to tetrahydroberberine: m.p., i.r., u.v.) eluted with CHCl₃:MeOH (49:1), *Jatrorrhizine chloride*, C₂₀H₂₀O₄NCl (0.14%; m.p., i.r., NMR, u.v., TLC, reduction² to tetrahydrojatrorrhizine: m.p., i.r., u.v.) eluted with CHCl₃:MeOH (22:3).

Roots. (Extracted MeOH.) Chromatography of quaternary chlorides afforded *Berberine* chloride (0.65%; m.p., i.r., TLC) and *Jatrorrhizine chloride* (0.08%; m.p., i.r., TLC).

Plant. *Coscinium wallichianum* Miers—Menispermaceae.

Uses. Dart poison.⁵

Previous work. Stems.⁶ On sister species.⁷⁻¹¹

Stems. (Extracted MeOH.) Quaternary alkaloids, isolated as iodides, then converted to chlorides, were chromatographed on acid-washed alumina. *Palmitine* chloride (0.28%;

* Present address: National Institute of Science and Technology, Horron, Manila, Philippines.

† Present address: Facultad de Ingenieria Quimica, Escuela Politecnica Nacional, Quito, Ecuador.

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m.p., i.r., u.v., TLC, NMR) was eluted with CHCl_3 :MeOH (49:1), *Berberine* chloride (0.5%; m.p., i.r., u.v., NMR, TLC) with CHCl_3 :MeOH (49:1), and *Jatrorrhizine* chloride (0.08%; m.p., i.r., u.v., NMR, TLC) with CHCl_3 :MeOH (22:3).

Roots. (Extracted MeOH.) Quaternary chlorides separated by chromatography into *Palmitine* chloride (0.55%; m.p., i.r., TLC), *Berberbine* chloride (0.7%; m.p., i.r., TLC) and *Jatrorrhizine* chloride (0.18%; m.p., i.r., TLC).

Acknowledgements—We thank the Department of Chemistry, Kuala Lumpur, Malaysia, for plant material, Mr. L. L. Forman, Kew, for identifying the plants and the Ministry of Overseas Development for financial assistance to two of us (L. M. G. and P. M.).