

RUTACEAE

FUROCUMARINS FROM THE PERICARPS OF
EVODIA HUPEHENSIS

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Key Word Index—*Evodia hupehensis*; Rutaceae; furocoumarins.

Plant. *Evodia hupehensis* Dode. *Source.* Szeged, Hódmezővásárhely (Hungary); Münster (FRG). *Uses.* None. *Previous work.* From related species several alkaloids;¹ from *Evodia belae* Baillon, two coumarins.²

Present work. Dried pericarps were extracted with MeOH at room temp. After concentration the extract were fractionated with benzene and EtOAc. Chromatography of the benzene fraction on silica gel afforded a steroid mixture m.p. 139–141°; an aliphatic fatty acid ester, m.p. 62° and the following furocoumarins: *bergaptene*, m.p., m.m.p., UV and IR; *xanthotoxin*, m.p., m.m.p., UV and IR; *isopimpinellin*, m.p., m.m.p., UV and IR; *isoimperatorin*, m.p. 240–245°, $UV_{\max}^{EtOH}$: 267, 310 nm *xanthotoxol*, m.p. 240–245°, $UV_{\max}^{EtOH}$: 267, 310 nm IR 3300, 1700, 1280, 1260, 866 and 750 cm^{-1} NMR (DMSO, δ): 10.5 (OH), 8.0 (1H, *d*, *J* = 10 Hz), 7.98 (1H, *d*, *J* = 2 Hz), 7.35 (1H, *s*), 6.92 (1H, *d*, *J* = 2 Hz), 6.29 (1H, *d*, *J* = 10 Hz).

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¹ R. F. RAFFAUF, *A Handbook of Alkaloids and Alkaloid-Containing Plants*, Wiley-Interscience, New York (1970).

² J. RONDEST, B. C. DAS, M.-N. RICOCH, CH. KAN-FAN, P. POTIER and J. POLONSKY, *Phytochem.* 7, 1019 (1968).