

CONSTITUENTS OF *CORYDALIS STEWARTII**

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(Received 30 March 1972)

Key Word Index—*Corydalis stewartii*; Papaveraceae; ginnol; protopine; tetrahydrocoptisine; domesticine; isoboldine; coptisine.

Plant. *Corydalis stewartii* Fedde. **Source.** West Pakistan. The plant was collected and identified by Prof. Qazilbash, Peshawar University where a voucher specimen is deposited. **Uses.** The juice of the plant is used in the treatment of eye diseases.¹ **Previous works.** Protopine,² and several alkaloids of unknown structure.¹

Present work. Ginnol (0.5% yield, m.p., m.m.p.) was isolated from the MeOH extract of the air-dried whole herb (620 g). Alkaloids were purified by means of preparative chromatography (Column and TLC) from the mother liquors of ginnol as described earlier.³ Protopine (0.126%, m.p., m.m.p.). *d*-Tetrahydrocoptisine (0.032%, m.p., m.m.p.). Domesticine (0.035%, m.p., IR,⁴ UV,⁴ MS, NMR), *O*-methylation with CH₂N₂ gave nantenine (m.p., MS,⁵ NMR). Isoboldine (0.040%, m.p., UV,⁶ MS,⁷ NMR⁷), *O*-methylation with CH₂N₂ afforded *d*-glaucine (m.p., m.m.p.). Coptisine, isolated as iodide (m.p., m.m.p.), reduction with NaBH₄-MeOH gave *dl*-tetrahydrocoptisine (m.p., m.m.p.). This is the first record of the occurrence of domesticine and isoboldine in the genus *Corydalis*.

Acknowledgements—We thank Professor N. A. Qazilbash, Peshawar University, West Pakistan, for the collection and identification of the plant, and also Professor H. Mitsunashi, Hokkaido University, for kindly supplying of the plant material. Thanks are also due to the members of Analytical Center of this laboratory for microanalyses and spectroscopic measurements.

* Part X in the series "Constituents of *Corydalis* Species". For Part IX see S. NARUTO, K. NAMBA and H. KANEKO, *Phytochem.* **11**, 2642 (1972).

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SANGUINARINE DERIVATIVES FROM *ROMNEYA COULTERI**

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(Received 7 March 1972)

Key Word Index—*Romneya coulteri*; Papaveraceae; sanguinarine; dihydrosanguinarine.

* Part XIV in the series "Alkaloids of the Papaveraceae". For Part XIII see F. R. STERMITZ, S. M. WORKMAN and W. M. KLEIN, *Phytochem.* **10**, 675 (1971).