

论文

双稠吡咯啉生物碱的研究 II. 瓜叶菊的生物碱

朱元龙, 朱任宏

中国科学院药物研究所, 上海

摘要:

从瓜叶菊中分离得两个新的双稠吡咯啉生物碱, 暂称为瓜叶菊碱甲及乙. 甲素熔点为218—220°C(分解), 分子式为C₁₈H₂₅NO₅; 乙素熔点为200—202°C(分解), 分子式C₁₈H₂₅NO₆. 甲素及乙素的部分结构, 分别暂定为(I)及(II)式所示。

关键词:

STUDIES ON PYRROLIZIDINE ALKALOIDS—II. THE ALKALOIDS OF *SENECIO CRUENTUS* D.C.

CHU YUAN-LUNG CHU JEN-HUNG

Abstract:

Two new crystalline alkaloids were isolated from *Senecio cruentus* collected from the Shanghai suburb. They are provisionally named cruentine A and B respectively. Cruentine A has a molecular formula C₁₈H₂₅NO₅, m.p. 218-220°C, [α]_D^{17.7} -94.1°. The following salts have been prepared: (1) picrate, m.p. 185-187°C; (2) chloraurate, m.p. 134-136°C; (3) methiodide, m.p. 228-231°. When hydrolysed with 5% alcoholic potash, it gave retronecine and a necic acid C₁₀H₁₆O₅, m.p. 139-141°C. Cruentine B has the composition C₁₈H₂₅NO₆, m.p. 200-202°C, [α]_D^{17.6} -63.4°. Its picrate, m.p. 170-172°C, has been prepared. On hydrolysis as in the case of cruentine A, it also gave retronecine, m.p. 119-120°C, and a different necic acid C₁₀H₁₆O₆, m.p. 177-179°C. The partial structure of cruentine A and B may be expressed as formula (I) and (II) respectively. A pale yellowish volatile oil has also been isolated in a yield of 0.03% which showed some antibacterial action.

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