

论文

中药土青木香成分研究 [I]

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摘要:

关键词:

ON THE CHEMICAL CONSTITUENTS OF CHINESE DRUG "TOO-CHIEN-MU-SHI

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Abstract:

Too-Chien-Mu-Shi is the root of *Aristolochia debilis* Siebet Zuec. It has long been used as insecticide,antibacteria,haemostatic agent and the treatment of round- worm and of brain hyperemia.Use as expectorant and stomachic had also been mentioned in the literature. 3 compounds (A,B,C) have been isolated by the author from the sample bought from the market of Shanghai."A," "C" were obtained from the upper and middle layers and B from the lower layer after the alcoholic extracts have been concentrated."A," "C" may be separated from each other by shaken with ether,to remove"A" (0.06% content) and then extracted with acetone,concentrated and stocked for a long time,some shining golden-yellowish flat form crystals separated out named "Too-Chien-Mu-Shi-C" (0.12% content) with the empirical formula $C_{33}H_{23}NO_{14}$,m.p.278-280°(D), $[a]_D = \pm 0$. It is neither alkaloid nor glycoside. Under the examination of functional groups,it may exert NO_2 , NO , CH_3 CO-C, $(CH_3$ CH(OH)),CO,C= λ_{max} 420 m μ , $E_{1cm}^{1\%}$ 30,000(0.3g/C), R_f 0.79.Both physical and chemical properties of "C" are different to the alkaloids of *Aristolochia* spp.(Aristolochine,Aristinic acid,aristollic acid,aristolochic acid,and isoaristolochic acid).While "A"($C_{30}H_{29}O_{11}N$,m.p.288-290°(D), $[a]_D = \pm 0$),under the examination,is Probably an acidic compound,nitro-pseudo-acid,quinone,nitroso compound,alkyl-nitrate or alkyl nitrite. λ_{max} 410m μ , $E_{1cm}^{1\%}$ = 7.68×10^5 (0.14mg/c.c.), R_f 0.84. The lower layer of concentrated extract,having removed the "A" and "C", was concentrated to syrup and extracted with absolute alcohol.Concentrate the alcoholic extract.The colorless prism crystalline "Too-Chien-Mu-Shi-B" (0.22% content) $C_4H_6N_4O_3$,m.p.232-235, $[a]_D = \pm 0$) is closely like to allantoin,and no depression of their mixed m.p.was observed. According to the chemical constitution of "Too-Chien-Mu-Shin",it is very closely related with the Chinese drug "Mufonchine" (*A. Westlanch* Hemst.Mu-ton *A. Manchuriensis* Komarov).

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