

## ANTIHEPATITIS B VIRUS CONSTITUENTS FROM *SOLANUM ERIANTHUM*

Shen-Chieh Chou, Tsurng-Juhn Huang, En-Hung Lin, Chun-Huei Huang and Chang-Hung Chou

Research Center for Biodiversity and Graduate Institute of Ecology and Evolutionary Biology,  
China Medical University, Taichung 40402, Taiwan

Eleven constituents including  $\alpha$ -linolenic acid(**1**), 13*S*-hydroxy-9(*Z*),11(*E*)-octadecadienoic acid(**2**), 9*S*-hydroxy-10(*E*),12(*Z*),15(*Z*)-octadectrienoic acid(**3**), 9(*Z*),11(*E*)-octadecadienoic acid(**4**), octadecanoic acid(**5**), loliolide(**6**), dihydroactinidiolide(**7**), solasonine(**8**), solamargine(**9**), camelliaside C(**10**), 5-methoxy-(3",4"-dihydro-3",4"-diacetoxy)-2",2"-dimethylpyrano-(7,8:5",6")-flavone(**11**) were isolated from title plant. **9** showed the most potent activity against HBsAg (IC<sub>50</sub>: 1.57  $\mu$ M). **11** was the only active constituent (IC<sub>50</sub>: 36.11  $\mu$ M) against HBeAg. **9** revealed strong inhibition in DNA replication (IC<sub>50</sub>: 2.17  $\mu$ M). **1** showed prominent selected index (SI) in anti-HBsAg (7.75) and inhibition of DNA replication (7.18). This is the first report that unsaturated fatty acid **1**, steroidal alkaloid glycoside **9** and flavone **11**, showed excellent activity against HBV.