

CONCLUSIONS

A flavonoid and a sterylglucoside were isolated from the stembark of *Albizzia julibrissin*. Their structures were elucidated as 7,3',4'-trihydroxyflavone and α -spinasteryl-D-glucoside respectively. Both compounds were found to be inactive in antifertility. However, a triterpenoid saponin composed of acacic acid and 3 sugars, namely glucose, rhamnose and fucose, isolated from the butanolic fraction exhibits a strong uterotonic activity.

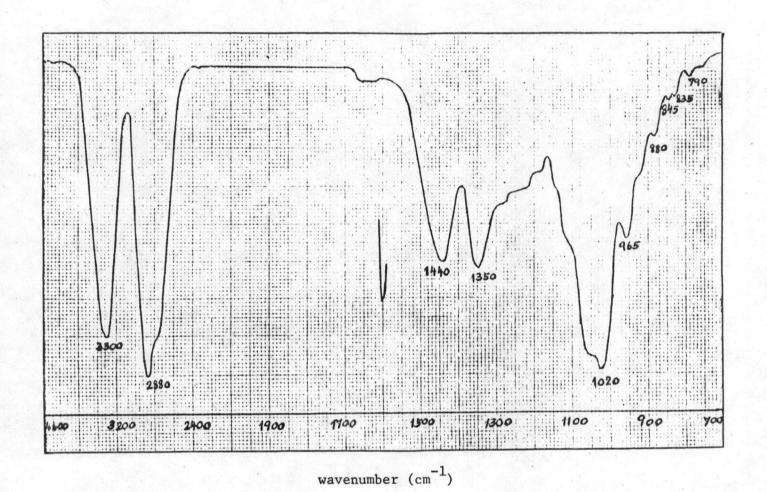
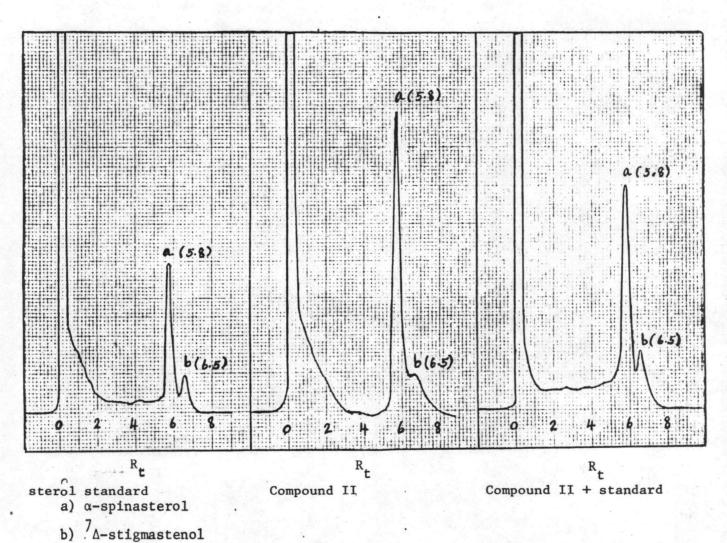


Fig. I IR spectrum of Compound I



b) . A-stigmastenoi

Fig. II Gas chromatograph of Compound II

CONDITION: column OV-1 (60-80 mesh), temperature; injector 190', detector (FID) 200', column 170', Chart speed 1 cm/min, carrier gas (N₂) 45 cm³/min

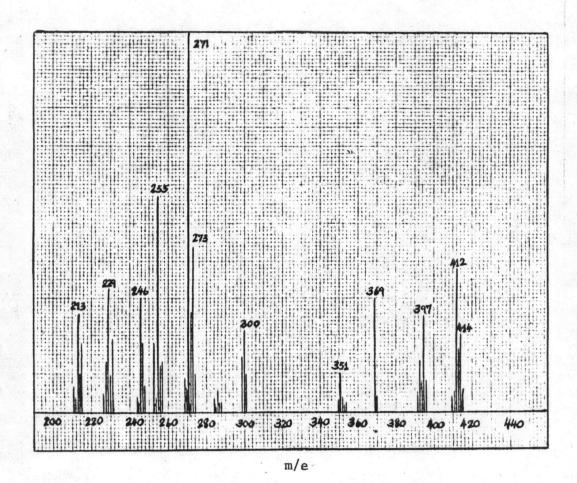


Fig. III Mass spectrum of Compound II

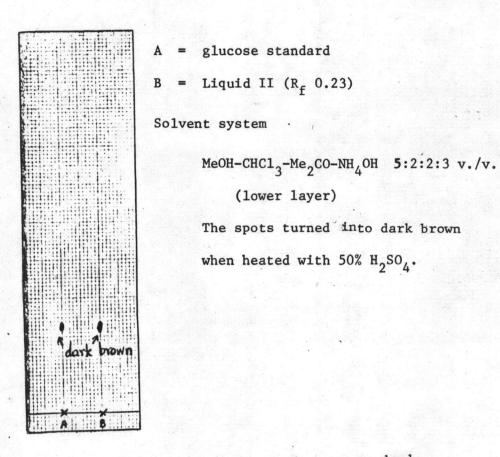
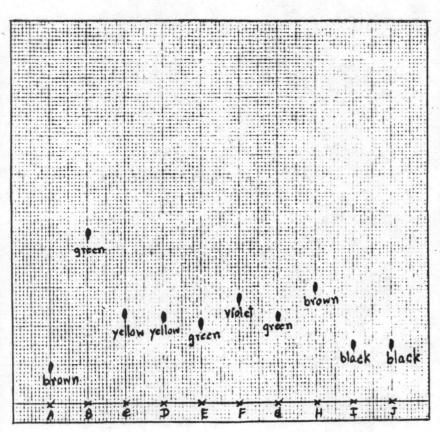


Fig. IV TLC of Liquid II and glucose standard



A = raffinose

 $B = \beta$ -methyl-D-xylose

C = rhamnose

D = fucose

E = arabinose

F = xylose

G = mannose

H = ribose

I = glucose

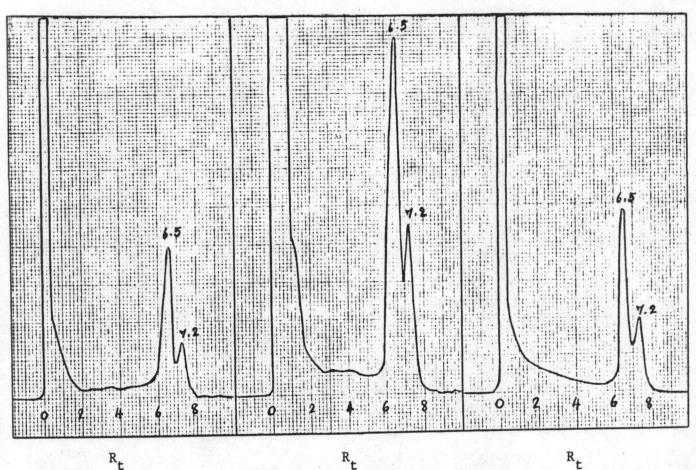
 $J = Liquid II (R_f 0.15)$

Solvent system :

 $\rm CHC1_3\text{-}MeOH\text{-}H_2O$ 52:25:8 v./v. (lower layer). The spots appeared after spraying 50% $\rm H_2SO_4$

and heating.

Fig. V TLC of Liquid II and suger standards



Rt

glucose standard

Liquid II

Liquid II + standard

 R_t 6.5 = α -glucose

 $7.2 = \beta$ -glucose

Fig. VI GLC of Liquid II and glucose standard.

CONDITION: column OV-2 (60-80 mesh), temperature; injector 190° detector (FID) 200°, column 170°, chart speed 1 cm/min, carrier gas (N_2) 45 cm 3 /min

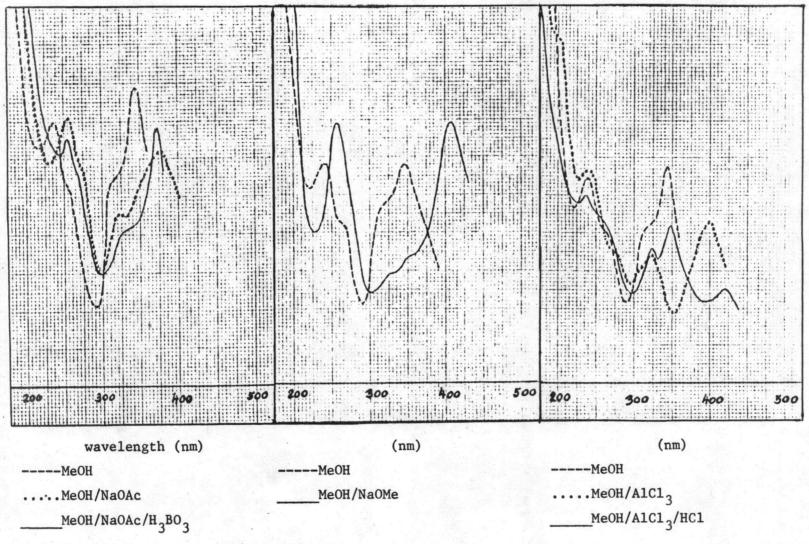


Fig. VII UV spectra of Compound IV in MeOH

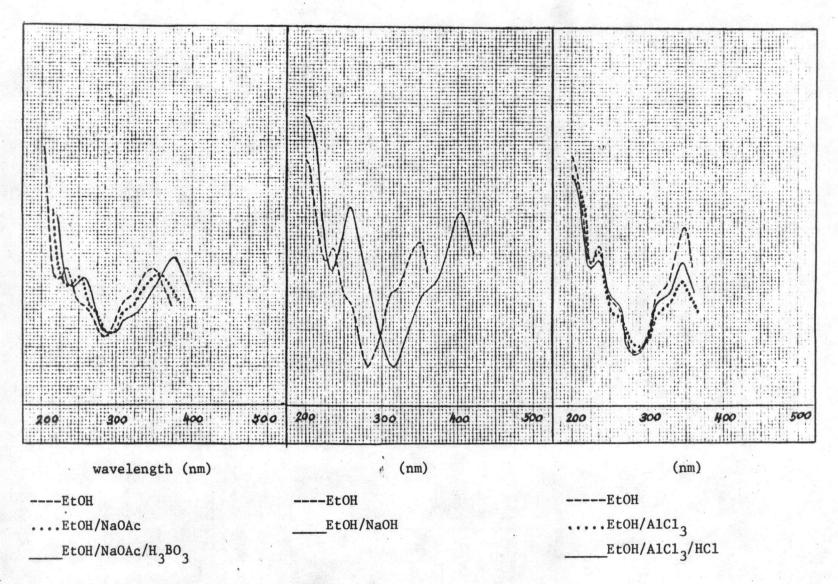


Fig. VIII UV spectra of Compound IV in EtOH

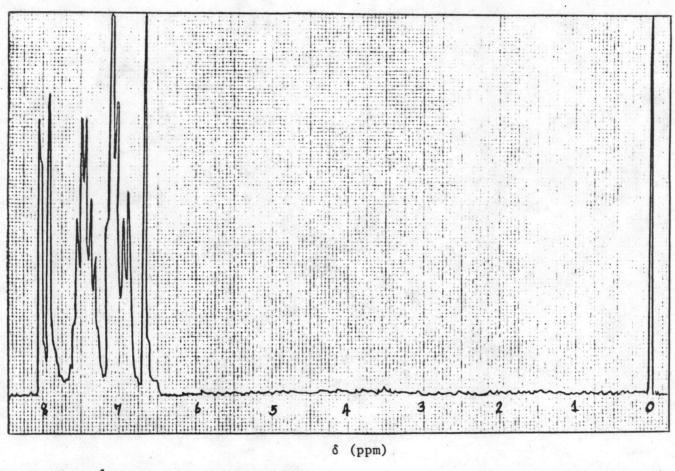
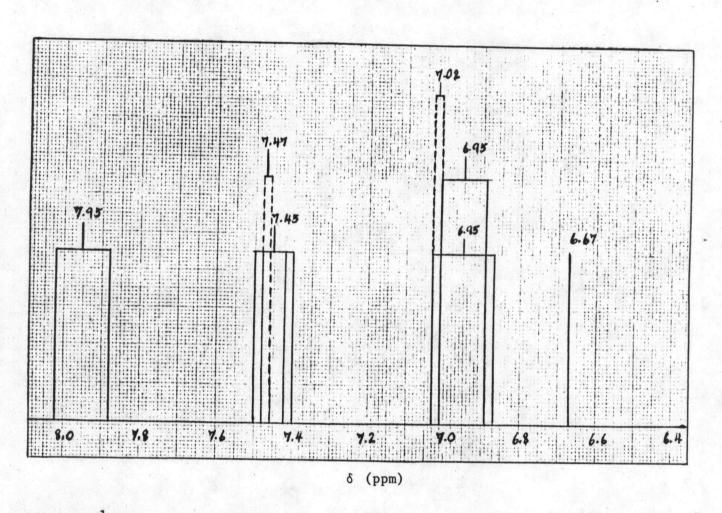
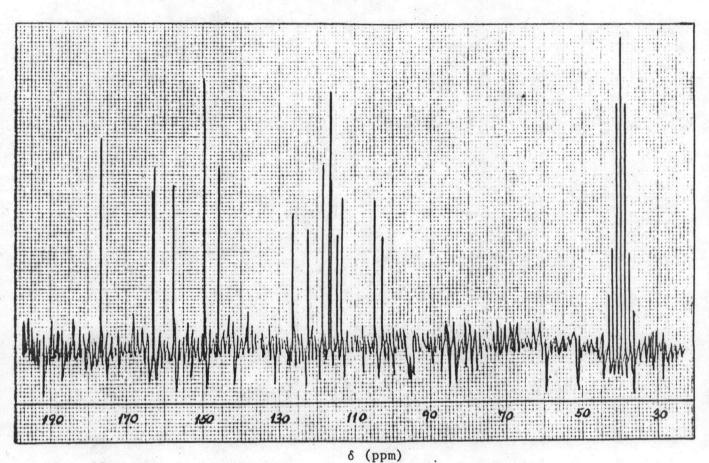


Fig. IX ¹H-NMR spectrum of Compound IV



Fix. X ¹H-NMR splitting pattern of Compound IV



42.5 163 ___ C-2 118.2 ___ C-6' 41.5 162.8 ___ C-7 116.2 ___ C-5' 40.6 157.6 ___ C-9 116. ____ C-10 39.6 DMSO 114.6 ___ C-6 149.1 C-4' 38.5 145.8 ___ C-3' 113.2 C-2' 37.2 126.2 C-5 104.8 ___ C-3 36.2 102.5 ___ C-8

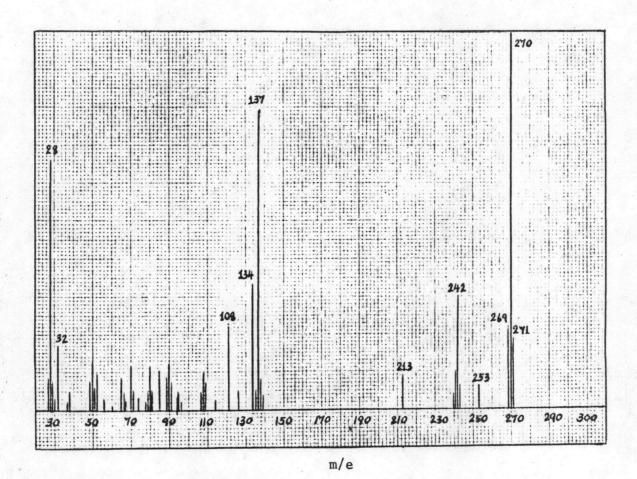
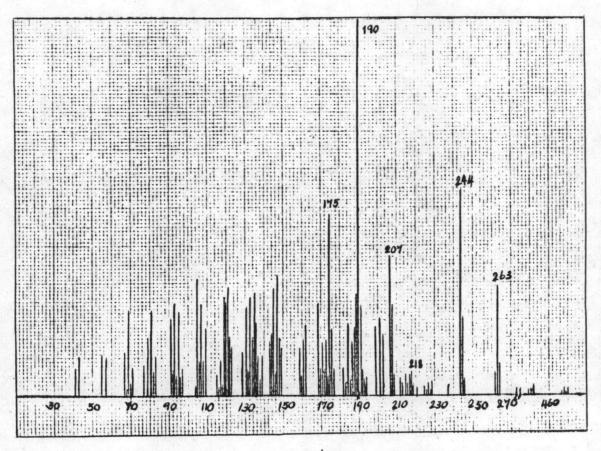


Fig. XII Mass spectrum of Compound IV



m/e

Fig. XIII Mass spectrum of Compound V