CHAPTER IV

CONCLUSION

In this research, the stems of Piper ribesoides Wall.. Which was the plant in the Piperaceae, were investigated for their chemical constituents because of their utilization as tribal medicine. From the stem of Piper ribesoides Wall., seven chemical constituents were obtained from chloroform and hexane extracts which were separated by using quick column chromatagraphy, they are:

A, a yellow needle(eqivalent to 0.037% wt. by wt. of crude hexane extract) was methyl piperate($C_{13}H_{12}O_4$), m.p. 147-149°C, $R_f = 0.53$ (silica gel/hexana:chloroform = 1:1)

B, a white amorphous solid(eqivalent to 1.50% wt. by wt. of crude hexane extract) was derivative of eupomatene ($C_{20}H_{20}O_4$), m.p. 102-105 C, $R_f=0.58$ (silica gel/chloroform)

C, a white needle(equivalent to 1.50% wt. by wt. of crude hexane extract) was eupomatene($C_{20}H_{18}O_4$), m.p. 146-148°C, R_f =0.60(silica gel/chloro form)

D, a white needle(equivalent to 1.00% wt. by wt. of crude chloroform extract) was (-)-borneol p-hydroxycinnamate($C_{19}H_{24}O_3$), m.p. 153-154°C, R_f = 0.09(silica gel/ hexane:chloroform = 1:3)

E, a yellow needle(equivalent to 1.00% wt. by wt. of crude hexane extract) was heteropeucenin-8-methylether($C_{16}H_{18}O_4$), m.p. 102-105 C, R_f = 0.40 (silica gel/chloroform)

F, a white solid(equivalent to 0.06% wt. by wt. of crude chloroform extract) was crotepoxide($C_{18}H_{18}O_8$), m.p. 149-150°C, R_f = 0.85(silica gel/hexane:chloroform = 1:9)

G, a white needle(equivalent to 1.12% wt. by wt. of crude chloroform extract) was N-isobutyl-13-(3,4-methlenedioxyphenyl) trideca-2,4-trinamide ($C_{24}H_{33}O_3N$), m.p. 116-117 $^{\circ}$ C. R_f =0.60(silica gel/hexane:chloroform = 1:9)