CHAPTER V

CONCLUSION AND RECOMMENDATION

Two species of *Evodia* namely *Evodia lepta* Merr. (Phia kra thing) and *E. gracilis* Kurz. (Salium dong) have been examined for the presence of alkaloids. *E. lepta* Merr. has been shown to contain three alkaloids EL-1, EL-2 and EL-3. The structures of these three alkaloids were elucidated by means of spectral interpretation and identified as edulinine, ribalinine and tentative identified as isomeric form of ribalinine.

In this present investigation *E. gracilis* Kurz. has also been investigated and has yielded two alkaloids. The structures of these two alkaloids were deduced by comparison of spectral data with published values. It is concluded that EG-1 and EG-2 are identical with kokusaginine and skimmianine respectively.

Consideration to taxonomy, Smitinand has placed these two plants in the same species and used *E. gracilis* Kurz. as a synonym. On phytochemical study, the presence of alkaloids from both of them are quite different e.g. pyroquinolines in *E. lepta* Merr. and furoquinolines in *E. gracilis* Kurz.. The separation of these species into *E. gracilis* Kurz. and *E. lepta* Merr. is presumed by this performance.

Concerning to distribution of alkaloids in genus *Evodia*, phytochemical studies of other species growing in Thailand are recommended.