

CHAPTER V

CONCLUSION

In the present investigation of *Diospyros undulata* Wall. ex G. Don var. *cratericalyx* (Craib) Bakh., naphthoquinones and triterpenoids were isolated from the leaves of this plant collected from Chachoengsao, Thailand.

Totally, six compounds were isolated from the leaves of *D. undulata* Wall. ex G. Don var. *cratericalyx* by chromatographic techniques. Their chemical structures were identified using spectroscopic techniques. A new dimeric naphthoquinone was elucidated as 7,7'-biplumbagin, of which the name "undulatanone" is given. Other naphthoquinones identified as the constituents of this plant are the monomeric plumbagin and the dimeric marinone. Three known triterpenoids with reported biological activities were also isolated and identified. The one with the greatest yield is lupeol, whereas the other two terpenoids are betulin and friedelin.

This is the first report of the chemical constituents of this *Diospyros* species and the data obtained would be valuable in the chemotaxonomic and phytochemical study of this important plant genus. Nevertheless, further study on other constituents from different parts of *D. undulata* Wall. ex G. Don var. *cratericalyx* should be performed.