

CHAPTER IV

CONCLUSION

In this course this research, the leaf of *Amoora gigantea* Pierre ex. Laness, which is a plant in the family Meliaceae, were selected for investigation of their chemical constituents. The leaf of *Amoora gigantea* Pierre ex. Laness were extracted with hexane and methanol, then the crude extracts were separated by using column chromatography. To obtain ten compounds as follow ;

1. Compound 1 was a mixture of long chain aliphatic hydrocarbon (C_{22-24} , C_{27-33}) (docosane, tricosane, tetracosane, heptacosane, octacosane, nonacosane, hentriacontane, dotriacontane and tritriacontane)
2. Compound 2 was long chain ester (Octadecyl eicosanoate)
3. Compound 3 was 5α -dammara-20(21), 24-dien-3-one
4. Compound 4 was a mixture of long chain aliphatic primary alcohol (dotriacontanol and tritriacontanol)
5. Compound 5 was 5α -dammara-20(21), 24-dien-3 β -ol.
6. Compound 6 was a mixture of steroid (stigmasterol and β -sitosterol.)
7. Compound 7 was a mixture of steroid glycoside (stigmasterol-3-O- β -D-glucopyranoside and β -sitosterol-3-O- β -D-glucopyranoside)
8. Compound 8. was tetratriacontanoic acid.
9. Compound 9 was the ivory amorphous solid m.p.138-140°C, R_f value 0.54 whose structure cannot be identified due to the limited amount)
10. Compound 10 was the ivory amorphous solid m.p.217-220°C, R_f value 0.62 whose structure cannot be identified due to the limited amount.

From the literature surveys(91) 5α -dammara-20(21), 24-dien-3-one is used to treat inflammation. Therefore, the previously claimed inflammatory activity of Taa Suea Bai Lek in herbal medicine has supporting evidence new because 5α -dammara-20(21), 24-dien-3-one was found in the leaf of Taa Suea Bai Lek. Moreover, this study also provided additional spectroscopic information (IR, $^1\text{H-NMR}$, ^{13}NMR and MS) of 5α -dammara-20(21), 24-dien-3-one which were previously unknown.



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Figure 95 All Isolated Substances from the Leaf of *Amoora gigantea* Pierre ex. Laness.

