

CHAPTER V

CONCLUSION

In this present study, from the stem of *Strychnos vanprukii* Craib, a new isopimarane diterpenoid, 7 β -hydroxyisopimara-8,15-dien-14-one, and a new gluco-indole alkaloid, 3,4-dehydropalicoside were isolated together with five other alkaloids: palicoside, 3,4,5,6-tetrahydropalicoside, akagerine, 17-*O*-methylakagerine and strychnocarpine. Lignan, phenolic, cyclitol and sterol compounds were also isolated. Two new lignans are strychnoside and vanprukoside were found, together with the known lyoniresinol 3-*O*- β -glucopyranoside. The three phenolic compounds are pyrocatechuic glucoside, syringic and vanillic acid. Cyclitol compound (bornisitol), a mixture of β -sitosterol and stigmasterol and a mixture of their glucosides were also found. Lignan compounds exhibited more potent antioxidant activity than ascorbic acid. All of the tested compounds showed weak acetylcholinesterase inhibitory activity and possessed no cytotoxic activity against melanoma B16 and antimicrobial activity against *S. aureus*, *E. coli* and *C. albicans*.

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