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APPENDIX A

Primary active compounds screening of TDE



Figure 34 Alkaloids screening test (primary test)

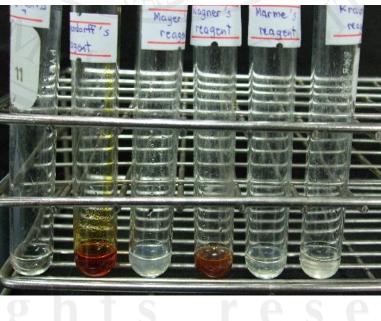


Figure 35 Alkaloids screening test (confirm test)

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Figure 36 Sterol / Triterpene glycosides screening test

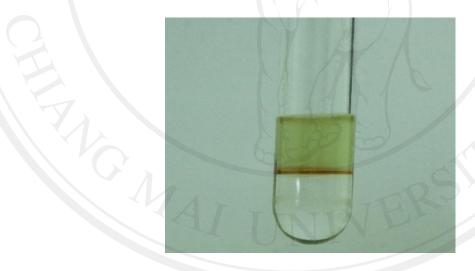


Figure 37 Cardiac glycosides screening test

APPENDIX B

Preparation of phosphate buffer solution pH 7.4

The phosphate buffer solution pH 7.4 at a concentration of 500 μ Mol/L described briefly as follows: Firstly, the disodium hydrogen phosphate anhydrous (Na₂HPO₄; MW 141. 96) was accuracy weigh and then dissolved in DI water. Adjusted pH of solution with ortho-phosphoric acid solution to be pH 2.5 and added the ammonium solution to adjust pH to be 7.4.

Calculation concentration of buffer

MW Na₂HPO₄ = 141.96 g/mole

1 μMol Thus, 500 μMol $= 141.96 \times 10^{-6} \text{ g}$ $= 500 \times 141.96 \times 10^{-6} \text{ g}$

= 70.98 mg

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APPENDIX C

Anti-inflammation on EPP-induced ear edema



Figure 38 Swelling of rat ears after received the topical EPP application

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Thailand Research Fund: TRF- Master Research Grant (TRF-MAG)

Neimkhum, W., Niwatananun, W., Yotsawimonwat, S., Okonogi, S. (2010). Biological Activities of Active Extracts from Stem of *Tabernaemontana Divaricata*. *Journal of Metals, Materials and Minerals*, 20(3), 201-206.

Waranya Neimkhum, Wirat Niwatananun, Songwut Yotsawimonwat, Siriporn Okonogi. Biological activities of active extracts form *Tabernaemontana divaricata* Linn. Poster presentation The sixth Thailand Materials Science and Technology Conference, August 26-27, 2010; Miracle grand convention hotel, Bangkok, Thailand.

Waranya Neimkhum, Wirat Niwatananun, Songwut Yotsawimonwat, Siriporn Okonogi. Factors influencing physicochemical characteristics of *T. divaricata* extract loaded SLNs. Poster presentation The 2nd Graduate CMU Research Conference, November 26, 2010; Chiang Mai university, Chiang Mai, Thailand.