

ABSTRACT

Thesis Title : Chemical Constituents of *Diospyros*
rhodocalyx Kurz (Ebenaceae)
Student's Name : Miss Patcharee Pakakatsama
Degree Sought : Master of Science
Major : Applied Chemistry
Advisory Committee :

1. Assoc.Prof.Dr.Somyote Sutthivaiyakit
2. Asst.Prof.Dr.Thitima Rukachaisirikul

Studies on chemical constituents of bark of *Diospyros rhodocalyx* Kurz was conducted by extracting the powdered dry bark with hexane, ethyl acetate and methanol, respectively. The concentrated extracts of hexane, ethyl acetate and methanol were chromatographed. Investigation of pure compounds isolated had revealed the presence of betulin, taraxerone, lupenone, β -sitosterol, lupeol and betulinic acid in hexane extract. Betulin, betulinic acid, taraxeryl acetate, taraxerol and stigma-4-en-3-one could be isolated from ethyl acetate extract whereas stigma-4-en-3-one and ethyl- β -D-glucoside were obtained from methanol extract.

The structure elucidation was deduced by spectroscopic methods, principally $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, IR and Mass spectroscopy.