RINGKASAN

Tanaman purwoceng (*Pimpinella alpina* Molk) selama ini telah dikenal sebagai obat penggugah seksual (afrodisiak) dan obat peluruh air seni (diuretik). Pada penelitian ini telah dilakukan isolasi dan karakterisasi senyawa metabolit sekunder dari purwoceng. Isolasi senyawa dilakukan melalui metode ekstraksi dengan pelarut *n*-heksan, sedangkan pemisahan dan pemurnian senyawa digunakan metode kromatografi kolom dan KLT preparatif. Karakterisasi senyawa yang diperoleh meliputi uji titik leleh dan uji fitokimia, sedangkan penentuan struktur melalui metode spektroskopi UV-Vis, FTIR, serta GC-MS.

Senyawa hasil isolasi berupa kristal putih yang memiliki titik leleh 154 – 155 ^{0}C dan dari uji fitokimia menunjukkan golongan steroid. Senyawa menyerap pada panjang gelombang maksimum 210 nm, dan menunjukkan adanya gugus hidroksil, alkil, gem dimetil, dan ikatan rangkap karbon-karbon terisolasi. Senyawa memiliki berat molekul sebesar 412 gram per mol. Berdasarkan data-data tersebut diusulkan bahwa senyawa hasil isolasi adalah stigmasterol yang merupakan senyawa steroid alam.

SUMMARY

Purwoceng (*Pimpinella alpina* Molk) is a plant that widely used to both diuretic and aphrodisiac. The secondary metabolics compound of the plant have been isolated and characterized in this research. Isolation of the compound have been carried out by means of extraction methods using *n*-hexane as a solvent. Purification of those were conducted with both equipment column chromatography and preparative thin layer chromatography. Of these, one of some compounds collected was then further charactherized by melting point test and phytochemical test, and its chemical structure was determined by spectroscopy methods.

Running all of those procedures could be collected white crystals which has melting point at 154 – 155 ^{0}C and from phytochemical test show steroid type. This compoud produced maximum wave length at 210 nm and indicate free hydroxyl group, alkyl, dimethyl gem, and isolated carbon-carbon double bonds were actually present. This compound have molecular weight 412 gram per mole. It could be concluded that this compound was stigmasterol, a nature steroid.