ABSTRACT

ISOLATION AND IDENTIFICATION OF STEROID FROM THE FRUIT OF MAHKOTA DEWA (*Phaleria macrocarpa*)

By

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This research had done the isolation and identification of steroid from the fruit of mahkota dewa (*Phaleria macrocarpa*). Research phase conducted include the collection and preparation samples, extraction, isolation. Identification of steroid compound is carried out using TLC with various eluens, reagent Liebermann-Burchard, and melting point test. Determining of structure using UV-Vis spectrophotometer, FT-IR spectrophotometer, NMR, and mass spectrophotometer (MS). The result showed that based on identification by TLC, reagent Liebermann-Burchard, melting point test, FT-IR spectrum data, UV-Vis spectra, NMR and MS, indicate that had formed a steroid compound called stigmast-5-en-3β-ol (β-sitosterol) as much as 10 mg as a pure crystal needle-shaped with the melting point ca 135°-137 °C.

Key word : stigmast-5-en-3β-ol (β-sitosterol), *Phaleria macrocarpa*