

RINGKASAN

Dalam rangka menggali dan memanfaatkan potensi sumber daya alam tumbuhan, maka dilakukan isolasi beberapa senyawa dari ranting *Artocarpus elasticus* Reinw. (bendo) dalam fraksi kloroform.

Tumbuhan *A. elasticus* Reinw. merupakan tumbuhan langka, tergolong dalam famili Moraceae. Tumbuh di bagian barat Indonesia pada ketinggian \pm 1000 m diatas permukaan air laut. Tumbuhan ini mempunyai banyak kegunaan, sebagian besar berguna sebagai obat-obatan.

Pemisahan kandungan senyawa dilakukan dengan menggunakan kromatografi kolom vakum berfasa diam silika gel 60 G dan fasa gerak n-heksan-etil asetat. Dihasilkan dua senyawa triterpenoid yang berbentuk kristal putih, larut dalam kloroform. Senyawa I bertitik leleh 63-64 °C dan senyawa II bertitik leleh 118-122 °C.

Berdasarkan hasil analisa spektrum IR, UV dan massa serta pendekatan kemotaksonomi, senyawa II β -sitosterol sedangkan senyawa I belum dapat ditentukan strukturnya, namun dapat diperkirakan mempunyai gugus ester dengan BM 467.



SUMMARY

To disclosure and to use natural resources, isolation the compounds contained in branch of *Artocarpus elasticus* Reinw. (bendo) from chloroform fraction had been done.

Artocarpus elasticus Reinw. is a rare plant, which is the member of Moraceae family. Growing in the west of Indonesia at ± 1000 m from the sea surface. These plants have much usage especially as medicine.

The separation of the compounds were done by vacuum column chromatography methode and by column chromatography with silica gel 60 G as the adsorbent and n-hexan-ethyl acetate as the solvent. Two triterpenoid compounds were found with characteristic white crystal and soluble in chloroform. The melting point of the first compound is $63-64^{\circ}\text{C}$ and the second compound is $118-122^{\circ}\text{C}$.

The analysis by infrared spectroscopy, ultra violet spectroscopy, mass spectroscopy with chemotaxonomy approach, the second compound is β -sitosterol, but the structure the first compound has not been defined. It was predicted the first compound is ester group and has molecular weight 467.