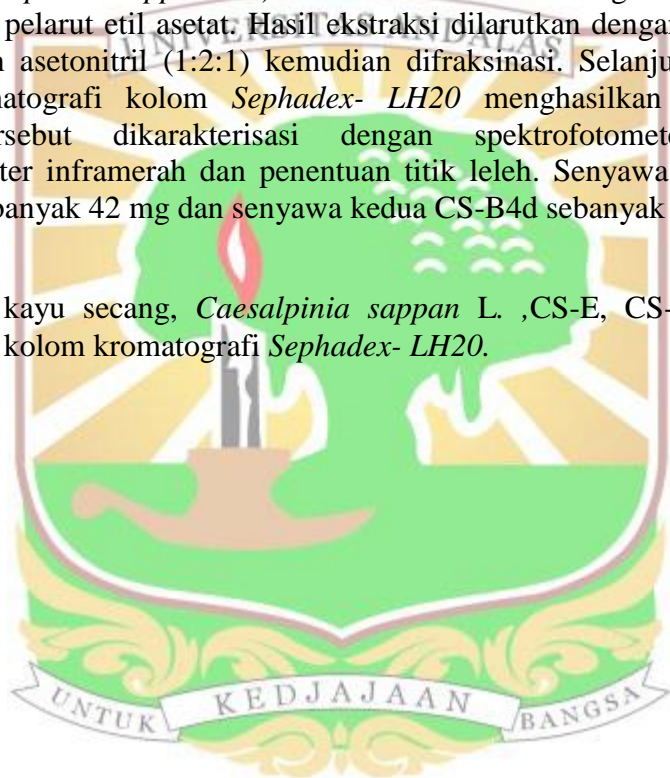


ABSTRAK

Secang merupakan tanaman yang sudah lama banyak digunakan sebagai obat tradisional. Adanya komponen brazilin memberikan warna spesifik dari kayu secang yaitu warna merah. Beberapa studi menyatakan bahwa brazilin memberikan efek antihiperlipidemik, antihepatotoksik, dan antiinflamasi. Penelitian ini bertujuan untuk melakukan isolasi senyawa pembanding dari kayu secang (*Caesalpinia sappan* L.). Isolasi dilakukan dengan cara sokletasi menggunakan pelarut etil asetat. Hasil ekstraksi dilarutkan dengan campuran etil asetat, air dan asetonitril (1:2:1) kemudian difraksinasi. Selanjutnya fraksi etil asetat dikromatografi kolom *Sephadex-LH20* menghasilkan dua senyawa. Senyawa tersebut dikarakterisasi dengan spektrofotometer ultraviolet, spektrofotometer inframerah dan penentuan titik leleh. Senyawa pertama diberi label CS-E sebanyak 42 mg dan senyawa kedua CS-B4d sebanyak 3,4 mg.

Kata kunci : kayu secang, *Caesalpinia sappan* L. ,CS-E, CS-B4d, sokletasi, kolom kromatografi *Sephadex-LH20*.



ABSTRACT

Heartwood is one of plant that used for traditional medicines for a long time. The presence of Brazilin compound gives a red specific colour to heartwood. Brazilin has some pharmacological activities such as antihyperglycemic, antihepatotoxic, and has antiinflammation effect. The marker compound of heartwood (*Caesalpinia sappan* L.) had been isolated. The isolation process was performed by soxhleting the heartwood in ethyl acetate. The extracts of ethyl acetate were soluted with ethyl acetate, water and acetonitril in combination (1:2:1), and then fractinated. Furthermore, the ethyl acetate fraction were separated by *Sephadex LH-20* and yield two compounds. These compounds were identified by using UV spectrophotometer, IR spectrophotometer and melting point apparatus. The first compound was labeled as CS-E as 42 mg and the second compound was labeled as CS-B4d as 3,4 mg.

keyword : heartwood, *Caesalpinia sappan* L., CS-E, CS-B4d, soxletation, the chromatographed on *Sephadex LH-20*

