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ID	2200488
Subject/Title	Brazilin Content, Antioxidative and Lipase Inhibition Effects of Sappanwood (Caesalpinia Sappan) from Indonesia
Author	Irmanida Batubara;Mohamad Rafi;Siti Sa'diah;M. Agung Zaim;Sus i Indariani;Tohru Mitsunaga
Journal Title	Journal of Chemistry and Chemical Engineering
Parallel Title	化學與化學工程
Vol./Publishing Date	Vol.4 No.10 (2010/10)
Page(s)	50-55
Language	English
Abstract	Determination of brazilin by High Performance Liquid Chromatography (HPLC) method and measurement of the antioxidative and lipase inhibition effects in the Caesalpinia sappan wood from various locations in Indonesia is described in this paper. Brazilin was separated from sample matrix using a reversed phase C18, Shim-pack VP column with the mobile phase in a gradient elution for 45 mm from 5% to 100% methanol in 0.05% aqueous trifluoroacetic acid. Brazilin in ethanolic extracts of C. sappan wood was in the range of 5.81 to 24.85 mg/g on dry-weight basis. Antioxidant and lipase inhibition activities expressed by IC50 values from all samples were in the range from 6.60 to 11.53 µg/mL and 50.76 to 203.21 µg/mL, respectively. Antioxidative and lipase inhibition potency of all ethanolic extracts were compared to vitamin C and chloramphenicol, isopropyl methyphenol and tetracyclin, respectively.
Keyword(s)	Caesalpinia sappan,sappanwood,brazilin,antioxidant activity,lipase inhibition activity,HPLC
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