

Analysis of chemical properties and gamma - oryzanol content in leum pua rice bran oil (oryza sativa l.)

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Abstrak

ABSTRACT

The study investigated the soxhlet extraction of Leum Pua rice bran oil (*Oryza sativa* L.) using 12 hours of extraction time, with comparison of product with hexane and ethanol as solvent. The chemical properties and gamma-oryzanol content in the rice bran oil were investigated. The results showed that the highest yield of rice bran oil was obtained from extraction using 70:30 %v/v ethanol:water solvent with percent yield of 21.89 ± 0.35 g (mean+SD)/100g of dry rice bran) and maximum amount of gamma-oryzanol of 0.4647 mg/L of rice bran oil. The chemical properties and gamma-oryzanol content of Leum Pua rice bran oil indicates acceptable quality of oil when stored for a long time causing foul odour due to lipid peroxidation.