

Comparative Phytochemical Analysis of Fermented and Unfermented Seeds of *Dialium giuneense*

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Abstract

The present study was designed to study the fermentation process and to scientifically evaluate its phytochemical components. Fermentation was carried out using traditional method. Exactly 160 g of the seeds were soaked in water, washed, and cooked for 2 h, after which they were washed, sieved and parboiled for 20 min, the seeds sieved, cotyledon poured into fermenting pot covered tightly to prevent heat escape, fermented for 72 h while still hot, and the final product was gotten and sundried. The phytochemical analysis of *Dialium guineense* was carried out, and the results of the analysis shows the presence of the following phytochemicals in varied proportion across the different samples; saponin, flavonoids and phenolic compounds. Findings from this study suggest that *D. guineense* contains agents (secondary metabolites) capable of ameliorating certain disease conditions, therefore, its use as condiment for food preparation is encourage.

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