

عنوان مقاله:

Evaluation of the nutritional potentials of fermented oil bean seed pentaclethra macrophyllah benth

محل انتشار:

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خلاصه مقاله:

The seeds of fermented African oil bean seed, Pentaclethra macrophylla Benth were analyzed for mineral elements, nutritional and anti-nutritional contents. The concentrations (mg/100g) of fermented African oil bean seed for 4days, 7days and 14days with regards to calcium, magnesium, potassium, sodium and phosphorus were 28.2mg/100g, 26.12mg/100g, 28.04mg/100g; 126.14mg/100g, 160.1mg/100g, 180.2mg/100g; 210.40mg/100g, 216.60mg/100g, 218.40mg/100g; 12.42mg/100g, 14.16mg/100g, 16.12mg/100g and 210.04mg/100g, 216.10mg/100g; 216.12mg/100g respectively. The percentage composition of protein, lipids, carbohydrates, Ash and fibre of the graded levels of fermented African oil bean seed (Pentaclethra macrophylla Benth) after 4days, 7days and 14days duration of fermentation were 31.95%, 38.38%, 39.04%; 35.00%, 38.20%, 42.40%; 28.31%, 20.75%, 15.97%; 1.08%, 1.19%, 1.33% and 3.66%, 1.48%, 1.26% respectively. The concentration of fermented oil bean seed for 4days, 7days and 14days with regards to anti-nutritional factors, phytate, tannins, hydrogencyanide (HCN) and oxalate were 0.04mg/100g, 0.02mg/100g, 0.01mg/100g; 0.042mg/100g, 0.004mg/100g, 0.002mg/100g; 0.02mg/100g, 0.04mg/100g, 0.008mg/100g and 0.12mg/100g, 0.11mg/100g, 0.10mg/100g respectively. The African oil bean seeds could serve as supplementary source of essential nutrients for man and his livestock

کلمات کلیدی:

Nutritional composition and anti-nutritional factors Fermented seeds Pentaclethra macrophylla benth

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