PHYSICAL AND CHEMICAL ANALYSE OF PELL, SEEDS AND THE PULP OF THE NONI (MORINDA CITRIFOLIA LINN.)


The exotic fruits such as Noni (Morinda citrifolia Linn.) has gained more space, so the search for benefits they can offer as the demand for different types of food sources. The objective of this study was to determine the physicochemical composition (moisture, ash, protein, carbohydrates and lipids) of the pulp, peel and seed of the Noni. The different parts of the Noni had a high moisture content significant amounts of carbohydrates and protein and only trace amounts of lipids. The amount of moisture in the present study was 88.36% ± 0.22, 68.65 ± 1.03% and 86.49% ± 0.36 for pulp, seeds and peel, respectively. The ash content ranged 0.93% for the pulp and seeds of 1.05% for the pell. The results also show that no significant differences in the amounts of proteins and lipids for the three parts of the fruit analyzed. The average content of protein found for the pulp Noni was 2.24% ± 0.04. The total energy, equivalent to 100 g of sample for the pulp and rind provided about 45.77 and 52.40 kcal, respectively, lower than the values found for seed (124.53 kcal), so the pulp of the Noni is considered low caloric value. Therefore, it was concluded that the pulp, peel and seed Noni have a high moisture content significant amounts of carbohydrates and protein and only trace amounts of lipids.

Keywords: Food Sources, Noni, composition.