World Academy of Science, Engineering and Technology
International Journal of Nutrition and Food Engineering
Vol:14, No:04, 2020

Quality Assessment of Some Selected Locally Produced and Marketed Soft Drinks

Authors : Gerardette Darkwah, Gloria Ankar Brewoo, John Barimah, Gilbert Owiah Sampson, Vincent Abe-Inge

Abstract : Soft drinks which are widely consumed in Ghana have been reported in other countries to contain toxic heavy metals beyond the acceptable limits in other countries. Therefore, the objective of this study was to assess the quality characteristics of selected locally produced and marketed soft drinks. Three (3) different batches of 23 soft drinks were sampled from the Takoradi markets. The samples were prescreened for the presence of reducing sugars, phosphates, alcohol and carbon dioxide. The heavy metal contents and physicochemical properties were also determined with AOAC methods. The results indicated the presence of reducing sugars, carbon dioxide and the absence of alcohol in all the selected soft drink samples. The pH, total sugars, moisture, total soluble solids (TSS) and titratable acidity ranged from 2.42 – 3.44, 3.30 – 10.44%, 85.63 – 94.85%, 5.00 – 13.33°Brix, and 0.21 – 1.99% respectively. The concentration of heavy metals were also below detection limits in all samples. The quality of the selected were within specifications prescribed by regulatory bodies.

Keywords : heavy metal contamination, locally manufactured, quality, soft drinks
Conference Title : ICFQFSPMFS 2020 : International Conference on Food Quality, Food Safety Policy and Management in Food Science
Conference Location : Tokyo, Japan
Conference Dates : April 23-24, 2020