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Comparative Analysis of Bottled and Galvanised Canned Soft Drinks in Nigeria

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Abstract: Five samples (Fanta, Coke, Sprite, Fayrouz, Schweppes both bottled and galvanized canned drinks) each were bought from a major dealer in a supermarket, Apapa, Lagos. The pH, specific gravity, total solids, amount of benzoic acid, acidity, and amount of ascorbic acid of the samples were evaluated using standard procedures. The results of the total solids showed slightly higher percentage for the bottled drinks relative to the canned drinks, with sample E occurring with the highest percentage total solids (13.41%) and the least value of 9.8% associated with sample B (all bottled drinks). The highest percentage acidity was observed in the canned drink (sample E) with a value of 0.47%. The amount of ascorbic acid contained in the sample B for both bottled and canned drink occurred at a non detectable level of the method. The pH of all the samples showed that they were all acidic with a range of 3.31-4.07.There were no significant difference in the specific gravity of all the samples. The results of the content of benzoic acid in the samples showed elevated concentrations of benzoic acid in all the samples which exceeded the SON standard for drinks (benzoic acid range 2.7-4.7g/l). The sugar analysis of the samples showed high level of sugar in samples A and E for the bottled drinks and Sample E for the canned drink (15.58% and 14.89% respectively). It was discovered that those drinks (sample E) with bitter taste contain high level of sugar.

Keywords: *bottled drink, canned drink, benzoic acid, ascorbic acid, sugar*

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