

Determination of Vitamin C Red Guava (*Psidium guajava* Linn) Fruit Juice, with Variation of Beverage Packaging by Titrimetric Method Using 2,6-Dichlorophenol Indophenol

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Abstract : The quantitative analysis of vitamin C content from variations beverage packaging containing red guava (*Psidium Guajava* Linn) fruit juice had been done. In this study, four samples were obtained from the shopping center in Garut and Bandung City. Samples were tested quantitatively by 2,6-dichlorophenol indophenol titration method. The results showed different concentration of 4 samples consist of tetra pack packaging, tin, glass, and plastic bottles, such as; 17.99 mg/100 gr, 31.46 mg/100 gr, 13.00 mg/100 gr, and 12.01 mg/100 gr, respectively. These results indicated that the packaging variations affected the level of vitamin C content which was characterized by decreased levels of vitamin C. It means the levels of vitamin C from this research were not in accordance with nutritional value information on the packaging. Tetra pack packaging was the most stable compared to other packaging even though it had a shorter expired date than with other.

Keywords : vitamin C, variations beverage packaging, red guava, titration 2,6- dichlorophenol indophenol

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