ABSTRACT

ANALISIS KADAR VITAMIN C PADA BUAH NANAS (*Ananas comosus* (L.) Merr) dan KERIPIK NANAS YANG BEREDAR DI PASAR WONOKUSUMO DENGAN METODE SPEKTROFOTOMETRI UV-VIS

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Vitamin C is one of the vitamins needed by the body that acts as an antioxidant to form a defense against free radicals. Fruits that contain vitamin C are pineapples. Pineapple is one type of fruit that is in great demand by the public. One of the processed products of pineapple is pineapple chips. The purpose of this study was to determine the difference in vitamin C levels in pineapple and pineapple chips using UV-Vis spectrophotometry. This research method was carried out experimentally using UV-Vis spectrophotometry at a wavelength of 200-400 nm. Sampling was carried out in a market study using the Purposive Sampling technique, namely from one market, samples were taken according to the research criteria, namely, using 2 different brands of pineapple chips samples with the same production code, namely February 2022 and the same expiry code, namely August 2022. Samples are tested after 1 month of production code. The result of this research is the linearity test obtained by the linear regression equation, namely $y = 0,0363x + 0,0687$ with a coefficient (r) of 0.993. From the regression equation, the average level of pineapple chips is 0,191%, the average level of pineapple chips A is 0,099% and the average level of pineapple chips B is 0,111%. Based on the results of this study, the suggestions that can be put forward are for similar researchers, it is recommended that in conducting this research the calibration curve is made with a wider concentration range. Conducting checks at the time of research to avoid data discrepancies, such as recording and documenting data.

Keyword : Spectrophotometry UV-Vis, pineapple, pineapple chips, vitamin C