

ANALYSIS OF SODIUM BENZOATE IN INSTANT WET SEASONING OF SOTO VARIANTS CIRCULATING IN BULULAWANG MARKET, MALANG REGENCY USING A UV-VIS SPECTROPHOTOMETER

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ABSTRACT

Background: Sodium benzoate is a preservative additive that is often used in various food and beverage products, one of which is instant wet seasoning for soto variants. Sodium benzoate is added with the aim of extending the shelf life of the product. Based on BPOM regulation Number 11 of 2019 concerning Food Additives Preservatives sodium benzoate maximum limit allowed in seasoning is 600 mg/kg. However, there are still many instant wet seasoning products for soto variants whose sodium benzoate content exceeds the required limit. Therefore, it is necessary to conduct research on the content of sodium benzoate preservative in instant wet seasoning for soto variants. **Purpose:** The purpose of this study was to identify the presence of sodium benzoate, determine the sodium benzoate content, and determine the suitability of the sodium benzoate content contained in instant wet seasoning for soto variants circulating in Bululawang Market, Malang Regency with the maximum limit standard set by BPOM No.11 of 2019. **Research Method:** This study used a qualitative method with 0.5% FeCl₃ reagent to identify the presence of sodium benzoate content in instant wet seasoning for soto variants. Then if the result is positive, a quantitative test is continued using a UV-Vis Spectrophotometer at the maximum wavelength. **Research Results:** The results of the study showed that 4 of the 7 samples were positive for containing sodium benzoate preservatives with their respective levels, namely, sample 1 (1213.47 mg/kg), sample 2 (1077.75 mg/kg), sample 5 (868.33 mg/kg), and sample 6 (927.06 mg/kg). The results of the levels in the 4 samples did not meet the requirements (TMS). **Conclusion:** From the results of the study, it can be concluded that 4 samples were positive for containing sodium benzoate. The results of the levels of the 4 samples did not meet the requirements (TMS) with the levels of each sample, namely, sample 1 (1213.47 mg/kg), sample 2 (1077.75 mg/kg), sample 5 (868.33 mg/kg), and sample 6 (927.06 mg/kg).

Keywords: Sodium benzoate, Instant wet seasoning for soto variant, 0.5% FeCl₃ reagent test, UV-Vis spectrophotometer