ANALYSIS OF BORAKS IN SIOMAY CIRCULATING IN SUMBER DAWESARI MARKET, PASURUAN REGENCY

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ABSTRACT

Background: *Borax or sodium tetraborate is an additive that is prohibited for use in processed foods according to BPOM Regulation Number 22 of 2023 concerning Food Additives. Borax is toxic and can have negative impacts on health if consumed continuously, such as irritation of the digestive tract, nervous system disorders, and impaired kidney and liver function. Misuse of this substance is still widely found in food products, because it can increase elasticity and improve texture such as siomay. Therefore, research is needed to analyze the borax content in siomay circulating in the community in order to protect consumers from the risk of exposure to hazardous materials.* ***Objective:*** *The purpose of this study was to determine the presence of borax content in siomay snacks circulating in the Sumber Dawesari Market, Pasuruan Regency.* ***Research Method:*** *Qualitative research of borax with two types of tests, namely the flame test and the turmeric test in accordance with SNI 01-2894-1992 and scientific journals as additional references.* ***Research Results:*** *The flame test did not show any green flame in all samples, including the second and third replications. This indicates that all samples (100%) were negative for borax, possibly due to the borax content being too low or the presence of organic compounds. In the turmeric test, borax was detected in three of the six samples (samples 4, 5, and 6), which was indicated by a color change to blackish green. These results indicate that 50% of the siomay samples tested were positive for borax..* ***Conclusion:*** *Three of the six siomay samples obtained from Sumber Dawesari Market were detected positive for containing borax..*

Keywords: *Siomay, Borax, Boric Acid, Turmeric Test, Flame Test*