ANALISIS RHODAMIN B PADA TERASI YANG BEREDAR DI PASAR SIDOKERTO, KECAMATAN BUDURAN, SIDOARJO MENGGUNAKAN METODE KROMATOGRAFI LAPIS TIPIS

(ANALYSIS OF RHODAMIN B IN TERASI CIRCULATING IN SIDOKERTO MARKET, BUDURAN DISTRICT, SIDOARJO USING THIN LAYER CHROMATOGRAPHY METHOD)

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ABSTRACT

Background: Rhodamine B is a synthetic dye that is prohibited for use in food based on BPOM Regulation Number 22 of 2023 concerning Raw Materials Prohibited in Processed Food and Materials Prohibited from Use as Food Additives. However, the use of Rhodamine B in food products is still often found, including in shrimp paste. Therefore, it is necessary to conduct research to analyze the Rhodamine B content in shrimp paste products circulating in the market. **Objective:** This study aims to analyze the Rhodamine B content in shrimp paste circulating in Sidokerto Market, Buduran District, Sidoarjo using the Thin Layer Chromatography (TLC) method. **Research Method:** begins with organoleptic physical identification of samples based on aroma and color. After that, the analysis of Rhodamine B content was carried out using a GF254 TLC plate, with a mobile phase in the form of a mixture of n-butanol: ethyl acetate: ammonia (10:4:5). **Research Results:** The results of physical identification of six samples showed that sample A has a dark brown color, samples C and D are brick red, and samples B, E, and F have a dark brown to blackish color. The results of the TLC test showed that there was no Rhodamine B content in the six shrimp paste samples tested. This is known from the absence of spots on the samples that have the same *Rf* value and color as the Rhodamine B standard**. Conclusion:** Based on the results of the study, it can be concluded that the shrimp paste circulating in Sidokerto Market, Buduran District, Sidoarjo does not contain Rhodamine B and is safe for consumption.

Keywords: Terasi, Rhodamine B, TLC.