

TESTING OF ARTIFICIAL SWEETENER SODIUM CYCLAMATE CONTENT IN UNBRANDED MILK POWDER SOLD AT TANJUNG MARKET, MOJOKERTO CITY

Muhammad Shendy Akbar Yulianto*, Muhammad Hasan Wattiheluw,*
Program Studi D3 Analisis Farmasi dan Makanan Poltekkes Kemenkes Malang
*Email: p17610234088muhammad@poltekkes-malang.ac.id

ABSTRACT

Background: *Background:* The use of sodium cyclamate as a food and beverage additive remains common, particularly in unbranded products. According to the Regulation of the Head of the National Agency of Drug and Food Control (BPOM) Number 11 of 2019 concerning Food Additives, the use of artificial sweeteners in powdered milk is prohibited. **Objective:** This study aimed to identify the presence of synthetic sweeteners in unbranded skimmed milk powder and to measure the cyclamate concentration in unbranded milk powder sold in Mojokerto City. **Methodology:** Three samples of unbranded milk powder were collected from one of the busiest shops at Tanjung Market, Mojokerto City. Testing was conducted using a sample precipitation method with BaCl₂ reagent and the gravimetric method. **Results:** Of the three samples tested, one sample tested positive for sodium cyclamate, with a concentration of 25.40 mg/kg. **Conclusion:** One of the unbranded milk powder products sold at Tanjung Market, Mojokerto City, contained sodium cyclamate; however, the level remained below the limit established by the 2014 BPOM Regulation (less than 250 mg/kg of product).

Keywords: Sodium Cyclamate, Skimmed Milk Powder, Gravimetry