ABSTRACT

Enno Cahya Dharista Putri, Analisis Natrium Siklamat Pada Minuman Serbuk Yang Dijual Online Dengan Metode Gravimetri , Dibimbing oleh Muh. Hasan Wattiheluw, S.Farm., M.Farm., apt.

Sodium cyclamate ($C_6H_{12}NNaO_3S$) is a type of artificial sweetener which has a sweetness level of approximately 30 times that of sucrose. Excessive use of cyclamate can have negative impacts on health. The use of cyclamate in Indonesia is still permitted with a specified maximum limit. According to WHO (Word Health Organization) the safe daily consumption limit is 11 mg/kg body weight. According to BPOM Regulation No. 11 of 2019, the limit for the use of cyclamate for flavored water-based drinks, including sports or electrolit drinks and particulate drinks, must not exceed 350 mg/kg. This research was carried out qualitatively using the precipitation method using $BaCl_2$ with Na_2SO_4 and quantitatively by calculating the % sodium cyclamate content. The results of this research showed that samples of powdered drinks that were positive for containing sodium cyclamate were found in samples 1, 2, 4, 6 with levels in sample 1 of 268,944 mg/kg, sample 2 of 267,220 mg/kg, sample 4 of 229,292 mg. /kg and sample 6 was 167,228 mg/kg.

Keywords: Sodium Cyclamate, Powdered Drink, Gravimetry.