

ABSTRACT

IDENTIFICATION OF THE RHODAMINE B SUBSTANCE DYE IN SNACKS IN PASIR GINTUNG MARKET AND WAY HALIM MARKET BANDAR LAMPUNG CITY

by

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Rhodamine B is a substance dye addition that the use of it in food product is banned. Rhodamine B is carcinogenic so that in the long-term use can cause liver damage, kidney inflammation, and even can cause cancer. Because of these dangers, then the prevention of using Rhodamine B dye in food is pursued.

This study aims to find out presence or absence of Rhodamine B in sample that will be tested using chromatography paper test and to determine the its content in the sample the spectrophotometry light test is used. This study is a laboratory descriptive research, conducted on December 2013 - January 2014 with 30 total sample that randomly simple drawn, 15 samples of Pasir Gintung Market and 15 other sample is taken in Way Halim Market in Bandar Lampung. From the research, there is 50% positive sample containing Rhodamine B, four of it has high enough levels are 2.1843-3.8972 $\mu\text{g/g}$ and 2.6959-3.0006 $\mu\text{g/g}$ were found in Pasir Gintung market, and 1.6075-1.3843 $\mu\text{g/g}$ and 1.4207-1.2295 $\mu\text{g/g}$ were found in the Way Halim Market.

Rhodamine B dye substance were found in the studied snacks.

Keywords: Snacks, chromatography, rhodamine B, spectrophotometric