ABSTRAK

Nama : Kennie Wulan Suci

Program Studi : Farmasi

Judul : "Analisis Timbal (Pb) Dan Arsen (As) Pada Pewarna Sintetik *Eyeshadow* Yang Beredar Di Pasaran Menggunakan Metode Spektrofotometri Serapan Atom (SSA)"

Eyeshadow yang dijual di pasaran di duga mengandung Timbal (Pb) dan Arsen (As) yang sengaja ditambahkan untuk membuat pigmen lebih terlihat, seperti $PbCrO_4$ untuk menghasilkan warna kuning, $Pb(MnO4)_2$ warna merah-orange, As_2S_3 kuning dan As_2S_4 warna merah. Tujuan penelitian ini adalah untuk menganalisis Timbal (Pb) dan Arsen (As) yang terkandung dalam *eyeshadow* yang ada di pasaran. Sebanyak 11 sampel *eyeshadow* teregistrasi dan tidak teregistrasi yang ada di pasaran dianalisis menggunakan metode Spektrofotometri Serapan Atom (SSA). Ada 2 sampel *eyeshadow* di pasaran tidak teregistrasi yang mengandung Timbal (Pb) melebihi batas aman dengan kadar 47,46595 mg/Kg dan 194,21096 mg/Kg. Semua sampel *eyeshadow* di pasaran teregistrasi dan tidak teregistrasi yang mengandung Arsen (As), masih dalam batas aman.

Kata Kunci:

Eyeshadow, Logam Berat, Spektrofotometri Serapan Atom (SSA).

ABSTRACT

Name : Kennie Wulan Suci

Study Programme : Pharmacy

Title :"Analysis of Lead (Pb) and Arsenic (As) on Synthetic Dyes of Eyeshadow that are Circulating in the Market by Using Atomic Absorption Spectrophotometry (SSA) Methode.

The eyeshadows that are available in markets are believed to contain Lead (Pb) and Arsenic (As) which are intentionally added in order to enhance the pigment; such as $PbCrO4$ to produce yellow, $Pb(MnO4)_2$ to produce red-orange color, As_2S_3 produces yellow and As_2S_4 to produces red. The purpose of this study was to analyze Lead (Pb) and Arsenic (As) contained in eyeshadow that are circulating on the market, the samples were analyzed using Atomic Absorption Spectrophotometry (AAS). As many as 11 registered and unregistered eyeshadow samples on the market were analyzed using the Atomic Absorption Spectrophotometry (AAS) method. There were 2 unregistered eyeshadow samples containing Lead (Pb) which exceeded the safe limit with levels of 47,46595 mg/Kg and 194,21096 mg/Kg, and all eyeshadow samples containing Arsenic (As) were still within safe limits

Keywords:

Eyeshadow, Lead, Atomic Absorption Spectrophotometry (SSA)