

INTISARI

Hand and body lotion merupakan sediaan kosmetika yang banyak beredar di pasaran. Di dalam *hand and body lotion* selalu terdapat bahan pengawet yaitu metil paraben, tetapi sayangnya dalam kemasan *hand and body lotion* tidak tercantum seberapa besar kadar metil paraben. Metil paraben yang digunakan sebagai pengawet dalam jumlah besar dapat mengakibatkan reaksi sensitisasi yang berupa dermatitis. Dengan adanya fenomena tersebut maka Kepala Badan Pengawas Obat dan Makanan Republik Indonesia membuat peraturan No.HK.00.05.4.1745 tanggal 5 Mei 2003 tentang kosmetik khususnya pasal 5c dimana dinyatakan bahwa kadar metil paraben yang diijinkan adalah 0,4%. Penelitian ini dilakukan untuk melihat seberapa besar kadar metil paraben dalam *hand and body lotion* yang beredar di pasaran dan apakah jumlah tersebut masih dalam batas yang diperbolehkan.

Prinsip yang digunakan dalam penelitian ini adalah pemisahan metil paraben secara kromatografi lapis tipis (KLT) preparatif dan penetapan kadar metil paraben secara spektrofotometri UV. Prinsip penetapan kadar metil paraben didasarkan adanya gugus kromofor yang bertanggung jawab atas penyerapan sinar ultraviolet dan diukur serapannya pada panjang gelombang 257,8 nm.

Penelitian ini merupakan penelitian non eksperimental deskriptif. Data yang diperoleh dibandingkan secara deskriptif antara kadar metil paraben yang satu dengan yang lainnya. Hasil penelitian menunjukkan bahwa rata-rata kadar metil paraben dalam *hand and body lotion* untuk merk A adalah $0,219 \% \pm 0,0025$ g; merk B adalah $0,161 \% \pm 0,0017$ g; dan untuk merk C sebesar $0,152 \pm 0,0025$ g. Dari data ini dapat disimpulkan bahwa *hand and body lotion* yang beredar di pasaran aman untuk digunakan.

Kata kunci : metil paraben, KLT preparatif, spektrofotometri UV.

Abstract

Hand and body lotion are cosmetic products much of which have been passed around in the market. The preservative which are usually used are the methyl paraben, but it is unfortunately that is not inserted in the package of hand and body lotions, how many are the degree of methyl paraben in each package of methyl paraben. Methyl paraben is used as a preservative in a big concentrations may cause reaction o sensitization that is dermatitis. Because of that phenomenon, the Department of Public Health has made a regulation as attached in Permenkes RI No. 445 / Menkes / Per / IV / 1998 about the substance, dye substance, preservative and sun screen, and it was claimed that the content of methyl paraben, which has been licensed is 0,4 %. This research was carried out to see how many are the degree of methyl paraben in the hand and body lotions, which are circulated in the market and that degree still in the safe limit, which is licensed.

The principle, which was used in the research was the separation of the methyl paraben by KLT and the determination for the content of methyl paraben by spectrofotometer UV. The principle of the determination for the content of methyl paraben was based on the existence of cromofor's group which was responsible for absorption of UV ray and its absorption was measured on wave length 257,8 nm.

This research was non experimental descriptive. The date obtained was compared descriptively between the content of one methyl paraben and the another. The result of the research showed that the average of the degree of methyl paraben in the hand and body lotions for brand A is $0,219\% \pm 0,0025$ g; brand B is $0,161\% \pm 0,0017$ g; and brand C is $0,152 \pm 0,0025$ g. Based on the data, it is can be concluded that the hand and body lotions were circulated in the market are safe to be used.

Key word : methyl paraben, KLT preparative, spectrofotometri UV.