

Pengembangan dan validasi metoda analisis asam retinoat, hidrokinon dan kortikosteroid dalam krim secara simultan menggunakan kromatografi cair kinerja tinggi photo diode array = Development and validation method for simultaneous analysis of retinoic acid, hydroquinone and corticosteroid in cream formula by high performance liquid chromatography photo diode array / Elvi Rahmayuni

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Abstrak

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Cream dosage form contain hydroquinone (HIQ), dexamethasone (DEX), triamsinolone acetonid (TSA), hydrocortisone acetate (HYA), betamethasone valerate (BEV) and retinoic acid (REA) was used for face skin, purpose smooth and bright result. The aim of this research is to analize this six components in cream using High Performance liquid Chromatography with gradient technique and Photo Diode Array (PDA) detector. The chromatography system consist of Waters X Bridge C18 5 $\frac{1}{4}$ m column (4.6 mm \times 250 mm) with gradien system mobile phase contain formic acid 0.1 % (A) - acetonitrile (B), flow rate was 1.2 ml/min and 400C column temperature. All separations were performed with a 2998 PDA detector on 210-400 nm wavelength, using time wavelength program. This method was validated over the range Of 25-150 μ g/ml for the six components, the horrat value was under 2 for precision parameter and the mean recoveries in the range of 99.05 – 100.96%. The LOD and LOQ were found in the range 1,19 $\frac{1}{4}$ g/mL - 7,14 $\frac{1}{4}$ g/mL. The use of this method in quantitative analysis of single sample cream substances on the market, from five samples tested has eligible grade determination results in the range 90 - 110% of the levels indicated on the label.</pre>

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