

**ABSTRACT**  
**(RESUME ARTICLE)**

**IDENTIFICATION OF HYDROQUINONE IN WHITENING CREAM BY  
THIN LAYER CHROMATOGRAPHY METHOD**

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*Hydroquinone is a benzene derivative compound, hydroquinone whitening cream can inhibit melanin production so as to reduce pigmentation in the skin and overcome hyperpigmentation and is used as a nail and hair dye but the use of this compound on the skin can cause side effects such as irritation, vitiligo, endogenous ochronosis, permanent blackening of the skin and even skin cancer.*

*The purpose of this resume article is in the first journal to determine the level of hydroquinone in whitening creams sold online, in the second journal to determine the level of hydroquinone in facial whitening creams circulating in the Central Tompasobaru Market, and in the third journal to determine the level of hydroquinone content in the sample. The method used was thin layer chromatography qualitative testing. Sampling in the first journal 3 cream samples taken from online beauty clinics that do not have BPOM production licences, in the second journal 3 cream samples that do not have BPOM licences, and in the third journal cream 3 samples obtained through direct purchase at Bringharjo Market, Yogyakarta. The methodology used in this research is article resume using 3 national journals. Identification of hydroquinone in whitening cream using thin layer chromatography (KLT) method because it is the simplest qualitative test, cheap, accurate results and widely used to carry out sample separation and analysis.*

*Based on the article resume, it is known that there are still many whitening creams that contain hydroquinone. From the results of research on cream samples containing hydroquinone in the first journal are samples 2 and 3 with Rf value of mobile phase chloroform : methanol (50:50) Rf value 0.85, Rf value of mobile phase hexane : acetone (3:2) Rf value 0.38. In the second journal is sample 1 with mobile phase toluene : glacial acetic acid (80:20) Rf value 0.84. In the third journal are samples A, B, and C with mobile phase methanol : chloroform (50:50) Rf value 0.87; 0.86; and 0.86.*

**Keywords: hydroquinone, whitening cream, thin layer chromatography**