Determining Concentrations of Pigments in Different Lipsticks of Same Colour

Anuradha Kumari

Department of Pharmaceutical Chemistry, School of Advanced Sciences, VIT University, Vellore, Tamil Nadu, India

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Lipsticks are cosmetic products used to enhance the look of lips. They are constitutes pigments, oil, waxes and emollients. Lipsticks are of great market value in today’s cosmetic industry. The author in the current article has determined the concentrations of pigments present in lipsticks of different brands available in the market of same colour [1]. During crime investigation cosmetics should be analysed properly as sometimes it can provide useful link of the suspect. Lipsticks now a day also used to protect our lips and to make our lips more beautiful.

Legal researchers use beautifiers lipstick prints and spreads as proof for fathoming unlawful acts. Hints of lipstick, lipstick smears could be discovered left on drinking containers, glasses, cigarette butts, tissue papers or hanky. In specific cases, follow measure of lipstick was exchanged to the apparel of culprit who assaulted a female. By looking at a lipstick smear with that of a casualty, legal researchers can exhibit aberrant confirmation of contact or a relationship between casualty and suspect. Likewise, it is infrequently conceivable to concentrate spit DNA from the print. Hence, scientific investigation of lipsticks was frequently found to be urgent in the examination of criminal cases. The distinguishing proof and determination of segments in a lipstick test must be directed with fast systems.

Lipsticks contain wax, oil and shading operators as three fundamental fixings. Wax empowers the alteration of the backbone properties to warmth and solidified surface on application. Then, oil gives glossy and skims quality. Amid assembling process, the number of colors or shading specialists utilized is restricted and mix of colors offer ascent to variety in shade. Shading specialists can be either engineered or common colors which can further be ordered into oil solubl

The author has explained the different techniques used to determine the concentration of the pigments present and the best suitable solvent by thin layer chromatography (TLC). TLC is one of the simple techniques used to separate the mixture of components based on their polarity [1-8]. The separation of the hydrophilic and hydrophobic constituents has helped the author in obtaining easy results in TLC. It a good study which explains the different solvent combinations based on their polarity. The author has followed a simple yet more productive method for extraction of pigments from the lipsticks.

30 lipstick tests of diverse brands of comparative shading were chose for this study shading operators was broke down by flimsy layer chromatography (TLC) and UV. Utilizing four diverse dissolveable
frameworks [Toluene/Benzene (12:8), Toluene/Acetone (16:4), Toluene/Benzene/Cyclohexane (4:12:4), Toluene/Benzene/Diethyl ether (12:6:2)]. Lipstick tests of hues vague on visual perception could be gathered into eight subgroups. The work that takes after goes on this line of examination. The study analyzes the handiness of two sorts of fluorescent reagents -Yellowescent Fluorescent Latent Prints Powder and Nile Red- for creating inactive lip prints, more established than one and a half year, on multi shaded surfaces. The reagents were utilized as a part of powder structure and glow was seen by a substitute light source and bright light. On a fundamental level Nile Red, as lysochromes, have advantage over other fluorescent powders since it respond with fats and physical specialists. The principle reason for this study is to distinguish focus level of different colors & to figure out which dissolvable framework is best for the specific brand of the lipstick utilizing Thin Layer Chromatography by checking the distinctions in the particular chromatogram & UV.

The study reflects about the value of two sorts of fluorescent reagents -Yellowescent Fluorescent Latent Prints Powder and Nile Red for creating inert lip prints, more established than one and a half year, on diverse surfaces. The reagents were utilized as a part of powder structure and radiance was seen by another light source and bright light. On a fundamental level Nile Red, as lysochromes, has advantage over other fluorescent powders in light of the fact that respond with fats and physical operators. Lip-print examination need be tended to in the measurable science group before it can be respected by an acknowledged method. This strategy for advancement can be valuable to help set up the legitimacy of the strategy. Likewise the likelihood to get DNA from an idle lip print could be other helpful application for wrongdoing examination.

The results obtained after TLC [9-12] proved that the components of Revlon lipstick separated easily with toluene/benzene system. All the components were visible under UV, it is a good article which overall gives a brief idea of separation of the components and how to choose and modify the solvent systems based on polarity [12-25].

It is concluded that through Thin Layer Chromatography examination & UV light investigation of the different colors of Lipstick in distinctive dissolvable framework will give trademark information to focus the best dissolvable framework for a specific lipstick.

REFERENCES