Formulation and Evaluation of Sesame Seed Oil (*Sesamum indicum* L) Conditioning Shampoo

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ABSTRACT

The Canon of Medicine was the scientific human health principal book of Ibn Sina, arranged in 5 volumes. Ibn Sina compiled the Canon of Medicine 2nd volume in the form of medical materials that describe the activity and efficacy, methods of use, properties and characteristics, as well as a description of 790 single medicinal ingredients derived from plants, animals, and other natural ingredients. Sesame seed oil (Sesamum indicum L) is one of the simple drugs that was stated by Ibn Sina in the book as hair cosmetics. Sesame seed oil contained fatty acids is useful for stimulating hair growth, reducing hair loss, and softening hair. This study aims to formulate sesame seed oil into a conditioning shampoo and evaluate the physical properties and stability of the conditioning shampoo. The shampoo was formulated with variation of sesame seed oil concentrations 0% (F1), 5% (F2), 10% (F3), and 15% (F4). The physical characteristics and stability evaluations were carried out included organoleptic, homogeneity, pH, rheological-viscosity, cleanability, foaming ability, conditioning effect, stability test at room temperature for 28 days, cycling test, and centrifugation test. The results showed that sesame seed oil conditioning shampoo with a concentration of 10% (F3) met the requirements for conditioning shampoo and were also physically stable. From hedonic test known that the formula containing a concentration of 10% sesame seed oil (F3) had the highest score of 4. Qualitative test by identifying the nutritious ingredients in the preparations showed the presence of oleic acid in all formulations containing sesame seed oil

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