

Formulation Of An Anti-age Cream Based On Aqueous Extract Of Soybean (Glycine max)

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The aim of the present study is to implement a process for formulation of an antiage cream based on aqueous extract of soybeans with 100 % natural ingredients. Methods. This research was conducted from January to July 2024. The research includes preparation of different extract, study of primary and secondary metabolites, evaluation of antioxidant activity, formulation of the preparation, examination of the homogeneity, determination of the type of emulsion, measurement of the pH, and determination of the stability. Results. Our study shows a value of 30.54 % oil, 21.716 % Carbohydrate and 10.5 % Protein. We noted that the Secondary Metabolite are much higher compared to the reference. Also checked the Antioxydant Activity using different methodes (CAT, DPPH and FRAP), the results show a higher overall antioxidant capacity. After multiple tries, we successfully made 3 varieties (different HLB) of 3 creams with different concentrations [1-5], [5-10], [10-15] a totaled 9 O/W biocreams. Our results show that the prepared creams have a soft consistency. We noted that all creams were dilute in distilled water, witch means that the creams prepared are hydrophilic (O/W). Conclusion. Our cream showed a good quality and stability waiting clinicaltrials.

Biography

Djahida Hadj Merabet has a master's degree in biology and a PhD in sciences option biological sciences, and I am a lecturer in the department of biology, faculty of natural and life sciences, earth and universe at the University of Tlemcen Algeria. I have worked on human and animal models in many fields (physiology, physiopathology, nutrition, pharmacology, and epidemiology).

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