

AS ASTOUNDING REVIEW INQUIRY AROUND MARINE COLLAGEN TO DOMINATE THE EXQUISITE ELEGANCE OF SKIN

¹Dr.P Kavitha, ²A Mohammed Thoufiq Ilahi, ³M Eniyavan, ⁴M Karthikeyan, ⁵Dr.M Surendra Kumar

^{1,5}Professor, ²Assistant Professor, ^{3,4}Student

Department of Pharmacy Practice

Senghundhar College of Pharmacy

Kumaramangalam, Namakkal District, Tamil Nadu, India-637205

Abstract-To learn analysis about the esthetic validity benefits of marine collagen seized from aquatic origin of fish skin, scales, bones. It is greatly or diversified by types and extra ordinary functional furnishing of molecular structure, derivation process and source. Collagen is gained as gelatin and peptides. The steps convoluted in assembling development is homogenizing the possessed tissue from marine origin; computing acetic acid and generating a collagen. Collagen is essential origin of human skin. It can diminish the skin contraction and flexibility. It has anti-aging action, antioxidant and wound curing. It controls a delicacy of a skin. It has low cost, high combined value and low environment impact. It has bio active property in preclinical and clinical studies, high application in future by tissue engineering, cosmetics, drug delivery organization.

Key Words: Fish collagen, Skin wrinkle, Medical applications, Bio-materials, Cosmetics.

INTRODUCTION

The constitutional protein in the extracellular matrix and connective tissue of animals is collagen. It is engaged in cell generation, differentiation, migration, and adhesion, where it plays crucial roles in maintaining the physical integrity of cells. Mammals have a high abundant of collagen protein, which is chiefly localized in the skin and other fibrous connective tissues. Marine organisms such as fish, jellyfish, sponges & other invertebrates have a origin of collagen. Type 1 collagen contributes to the organization, tensile strength, and resilience of joints. It has the ability to form fibrils for structural support, resistance to mechanical stress in connective tissues, and biological applications like as drug transport and wound healing. Skin wounds typically don't heal properly and require a long time to mend. Collagen modules have the potential to escalating the wound remedial process by enhancing the migration of fibroblasts and keratinocytes, as well as vascularization, epidermal growth, and rising wound size. It has anti-aging features that deminish wrinkles, enhance skin suppleness, and improve the longevity and presence of skin. Here, we review the inquiry around marine collagen to dominate the exquisite elegance of skin.

METHODOLOGY:

The primary objective was to assess the beauty of skin in the potential of cosmetics in marine collagen (Ana L. Alves) are discussed. Learned are applications for the food and pharmaceutical industries (Maya Raman). Collagen ability to moisturize skin is investigated (Kazuhisa Maeda). Skin anti-aging (Sza-Yu Pu) effects were discussed. Alina Sionkowska's cosmetic use was determined. Future marine collagen prospecting (Salvatrice Rigogliuso) was prepared, It was described how to use and develop marine collagen by Nishani Jayanika Jayathilake. Analyzed were an antioxidant and a case-control clinical research (Chiara De Luca), Malkanthi Evens analyzed the effectiveness of wrinkles and elasticity, and Fatuma Felix Felician looked at the medical applications of marine collagen.

REPORT AND DISCUSSION

It's crucial to remember that different people may react differently to marine collagen or any other dietary supplement. It's always a good idea to speak with a healthcare provider or a registered dietitian before using marine collagen or any other supplement to make sure it's suitable for your particular needs and to discuss any possible risks or drug interactions.

I suggest consulting recent scientific studies, clinical trials, and reliable sources in the fields of nutrition and skincare for the most up-to-date and accurate information on reports and outcomes about marine collagen.

CONCLUSION

The review concluded that the marine collagen is thought to have a great bio-availability, which means that the body can rapidly absorb and use it. Compared to other forms of collagen, its low molecular weight allows for better digestion and absorption.

The potential for marine collagen to enhance skin health is one of the main justifications for utilizing it. The main structural and elastic component of the skin is collagen. According to certain research, marine collagen may improve the hydration and flexibility of the skin as well as lessen the visibility of wrinkles and fine lines. Improve nail health, advance intestinal health, and aid in the recuperation and expansion of muscles.

Bones and joints depend on collagen for their strength and flexibility. Supplementing with marine collagen has been linked to possible advantages for joint health, including decreased joint discomfort and increased mobility in those with osteoarthritis. To validate these results and establish the ideal supplementation amount and duration, more research is required.

According to some research, it may help with gastrointestinal health, hair and nail health, and muscle growth and recuperation. According to the available scientific data, taking supplements of marine collagen may benefit your skin, joints, and may be other parts of your body like your bones and stomach. However, more thorough research is required to determine the precise advantages, ideal dosage, and long-term consequences of marine collagen. Consumers should pursue marine collagen supplementation with reasonable expectations and seek out individualized counsel from healthcare professionals.

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