MARINE COLLAGEN AND CHITOSAN COMBINED EXTRACTION METHOD

Description of the Invention

The invention provides an eco-friendly method for obtaining marine collagen and chitosan from fishery waste using green technology, enabling the production of high-value-added products.

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Country	Application Number	Status
Türkiye	2024/001942	Examination

Advantages

- By utilizing fishery waste, the invention promotes sustainable waste management and yields valuable components.
- Compared to traditional methods, it offers a more efficient extraction process, enhancing the quality of the collagen and chitosan mixture and ensuring efficient production.
- The invention provides a wide range of applications in the cosmetics and biomedical industries, producing high-value-added collagen and chitosan mixtures particularly suitable for anti-aging, skincare, and wound-healing products.

Market Information

The marine biotechnology market is projected to grow by 7.9%, reaching $6.5 billion by 2024. The global market for marine collagen and chitosan, which the invention targets, is estimated to grow by 6.5% annually, reaching $3 billion by 2030.

Target Audience

The primary target audience includes companies operating in the specified NACE codes, particularly those in the cosmetics and biomedical production industries.

Applications

The invention is suitable for businesses operating in the cosmetics and biomedical production sectors.

Nace Code	Activity
20.42	Manufacture of perfumes, cosmetics, and personal care products
21.20.02	Production of adhesive bandages, surgical sutures, and similar medical materials (e.g., gauze, tampons, etc.)
32.50.06	Manufacturing dental cements, dental waxes, fillers, bone treatment cements, adhesives, sutures (excluding catgut), etc.

Expectation

The aim is to transfer the technology to targeted firms via patent licensing or assignment. Such transfers will be supported by industry-industry collaboration projects. The invention aligns with TÜBİTAK's 1702 Patent-Based Technology Transfer Support Call.

Given that the client organization is an SME, it may reclaim 25-40% of the licensing fees in a potential technology transfer.

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