



Geltor

www.geltor.com

HumaColl21® Biomimetic Vegan Human Collagen

PRODUCT/SERVICE BACKGROUND INFORMATION

HumaColl21®, the first vegan bioidentical human collagen designed for skincare

Collagens have become a prominent skincare ingredient because of their role in maintaining skin quality and reducing the signs of skin aging. Traditional collagen ingredients are isolated from animal products in a harsh chemical extraction process that yields a heterogeneous mixture of fragmented collagen peptides. Geltor's patented biodesign platform and fermentation process creates biomimetic human and animal proteins that offers more benefits with a sustainable, animal-free process. HumaColl21® is the first vegan biomimetic human Type 21 collagen. A rare collagen, it can only be created using biotechnology. Biodesigned proteins offer unparalleled biocompatibility, purity, and consistency, delivering a unique and effective solution for today's biggest beauty movements. HumaColl21® is equipped with a robust, and continually growing, data package that serves to both educate and substantiate claims for the future of skin care.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

Of the 28 types of collagens produced in the human body, Type 21 has been identified as a critical precursor to human collagen types I and III - essential components to the maintenance of skin elasticity and youthfulness, and which our bodies decrease the production of as we age. By creating the first biodesigned human collagen for cosmetics formulations, Geltor has unlocked an exclusive, powerful collagen type that has been optimized for unparalleled skincare performance.

HumaColl21® helps rejuvenate skin, combating signs of skin aging. It has been demonstrated to outperform both traditional marine collagen as well as leading anti-aging active ingredients.

In vitro, HumaColl21® stimulates the expression of skin extracellular matrix components elastin, fibronectin, and collagen. In an 8-week clinical study, human volunteers that used a HumaColl21™-containing facial serum exhibited improved skin elasticity, increased collagen content, decreased skin redness and reduced wrinkles. The latest skin explant studies revealed a significant increase of Collagen I and Hyaluronic Acid in the epidermis and dermis layer, when topically treated with HumaColl21®. Additionally, a combination of HumaColl21® and Hyaluronic Acid demonstrated a synergistic effect in the significant increase of Collagen Type 1.

HumaColl21® provides powerful results without skin irritation or light sensitivity.

- INCI name: sh-Polypeptide-121
- Available as a powder or 2% solution
- Free of phthalates, parabens, triclosan, urea, BHT, and BHA
- Free of known allergens

- Biodesigned and manufactured in the USA, in a sustainable fermentation process

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

At Geltor, we design award-winning specialty protein ingredients of the highest quality that are better for brands, consumers, and the planet. We take pride in having developed a proprietary fermentation process for our products that is completely vegan and animal-free. This process has been demonstrated to be more sustainable than sourcing proteins from conventional animal sources in terms of CO2 emissions, land usage, and water usage.