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Sustainable Biotech: Fermentation and Enzyme Innovation for Next-Gen Personal Care

Sino Lion

www.sinolion.com

PRODUCT/SERVICE BACKGROUND INFORMATION

Sino Lion takes a holistic approach to skin and hair care, addressing both efficacy and wellness. For skin care, their solutions support a balanced microbiome, provide super-mild cleansing, moisturize at the root cause, and offer anti-aging, even-toning, and enhanced sensory benefits. For hair care, Sino Lion focuses on mild, sulfate-free shampoos and silicone-free conditioners that maintain a healthy scalp microbiome, cleanse and condition effectively, treat dry scalp, reduce itch, irritation, sensitivity, and excess sebum, and help prevent scalp aging and hair loss. Many of these high-performance solutions are derived from Sino Lion's Biotechnology platform.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

Sino Lion is introducing a Biotechnology platform that leverages fermentation and enzyme engineering to produce high-value, sustainable, and ethical active ingredients for personal care. The platform generates peptides, antioxidants, moisturizers, and brightening and anti-aging actives. Fermentation generates beneficial bioferments rich in proteins, amino acids, and other functional molecules, while enzyme engineering optimizes enzymes for specific tasks, resulting in products with high performance and formulation efficiency. This approach offers a sustainable and ethical alternative to traditional extraction and chemical synthesis, supporting vegan, cruelty-free, and eco-friendly products. Key examples include Polyglutamic Acid, Menaquinone-7, Glyceryl Glucoside, Biosaccharide Gum-1, Alpha Arbutin, Capryloyl Glycine, Ascorbyl Glucoside, Gultathione, and Ethylhexylglycerin.

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

Sino Lion's biotechnology platform is poised to transform the personal care industry by providing high-purity, sustainable, and ethical active ingredients. By combining fermentation and enzyme engineering, the platform produces optimized actives that improve purity, efficacy, and targeted action in formulations. It supports vegan, cruelty-free, and eco-friendly products, enables energy-efficient production, and meets growing consumer demand for sustainable solutions. The platform also allows for the development of novel ingredients such as high molecular weight Polyglutamic Acid, selective 2 α -Glyceryl Glucoside, chickpea derived Menaquinone-7, and Bifida & Lactobacillus Ferment Lysate, offering unique functional benefits. Overall, it empowers formulators to create more effective, innovative, and ethically responsible personal care products.